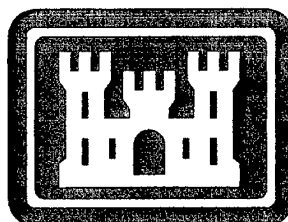


LIMITED ENERGY STUDY

EEAP - DACA01-94-D-0037

FOR
Fort Monmouth



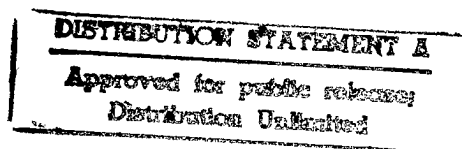
US Army Corps
of Engineers

U.S. ARMY ENGINEER DISTRICT, NORFOLK
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

~~INTERIM~~ FINAL REPORT

Book 2 of 2

Prepared by



Entech Engineering, Inc.

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P.O. Box 32
Reading, Pennsylvania 19603
610-373-6667
Entech #4130.05

~~July 1996~~

March 1997




DEPARTMENT OF THE ARMY
CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS
P.O. BOX 9005
CHAMPAIGN, ILLINOIS 61826-9005

REPLY TO
ATTENTION OF: TR-I Library

17 Sep 1997

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Marie Wakefield,
Librarian Engineering

Attachment 8.11

EZDOE Baseline Modeling Results

INPUT LOADS ..

\$-----\$
\$ E Z - D O E L O A D S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
 LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
 LINE-3 * READING, PA 19603 *

 LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
 LINE-5 *FTMOACO - SIM MCA H20 ONLY W/OA SCHD1 * ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
LOADS-REPORT SUMMARY=(LS-F) ..
BUILDING-LOCATION ALTITUDE = 15.
 X-REF = 0.0
 Y-REF = 0.0 ..
RUN-PERIOD JAN 1 1994 THRU DEC 31 1994 ..

\$ SCHEDULES

D24FULOFF =DAY-SCHEDULE (1,24) (0.) ..

DOCCUP01 =DAY-SCHEDULE (1,6) (0.07)
 (7,8) (0.7,0.9)
 (9,14) (1.)
 (15,18) (0.9,0.7,0.25,0.15)
 (19,24) (0.07) ..

d24occofhr =DAY-SCHEDULE (1,24) (0.07) ..

DWKLITE1 =DAY-SCHEDULE (1,6) (0.1)
 (7,8) (0.5,0.9)
 (9,14) (1.)
 (15,18) (0.9,0.7,0.25,0.15)
 (19,24) (0.1) ..

DNOTLITE1 =DAY-SCHEDULE (1,24) (0.1) ..

DINFILWIN1 =DAY-SCHEDULE (1,24) (0.8) ..

DINFILSUM1 =DAY-SCHEDULE (1,24) (0.8) ..

DFULON24 =DAY-SCHEDULE (1,24) (1.) ..

DEQPWKDAY =DAY-SCHEDULE (1,7) (0.15)
 (8,19) (0.5)
 (20,24) (0.15) ..

DEQAWKEND =DAY-SCHEDULE (1,24) (0.15) ..

W24FULON7D =WEEK-SCHEDULE (ALL) DFULON24 ..

19971023 105

WOCC01 =WEEK-SCHEDULE (WD) DOCCUP01
 (WEH) d24occofhr ..

 WLITE1 =WEEK-SCHEDULE (WD) DWKLITE1
 (WEH) DNOTLITE1 ..

 WINFILWIN1 =WEEK-SCHEDULE (ALL) DINFILWIN1 ..

 WINFILSUM1 =WEEK-SCHEDULE (ALL) DINFILSUM1 ..

 WHR16MAY =WEEK-SCHEDULE (MON) DFULON24
 (TUE) D24FULOFF
 (WED) D24FULOFF
 (THU) D24FULOFF
 (FRI) D24FULOFF
 (SAT) D24FULOFF
 (SUN) D24FULOFF
 (HOL) D24FULOFF ..

 WLFULOF =WEEK-SCHEDULE (ALL) D24FULOFF ..

 WEQSCHA =WEEK-SCHEDULE (WD) DEQPWKDAY
 (WEH) DEQAWKEND ..

\$ 24 HR FULON 7D/WK WK1
 Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ Y LOADS OCCUP SCH 01
 YOCC01 =SCHEDULE THRU DEC 31 WOCC01 ..

\$ YR LIGHTING SCH 1/.1
 YLITE1 =SCHEDULE THRU DEC 31 WLITE1 ..

\$ YR INFIL SCHD 1
 YINFIL1 =SCHEDULE THRU MAY 15 WINFILWIN1
 THRU OCT 15 WINFILSUM1
 THRU DEC 31 WINFILWIN1 ..

\$ HRLY RPT 16MAY
 HRMAY16 =SCHEDULE THRU MAY 15 WLFULOF
 THRU MAY 16 WHR16MAY
 THRU DEC 31 WLFULOF ..

\$ YR EQUIPMENT SCHDA 5015
 YEQSCHA =SCHEDULE THRU DEC 31 WEQSCHA ..

\$ CONSTRUCTION TYPES

\$ ROOF CON1 MAIN ROOF
 ROOFCON1 =CONSTRUCTION U-VALUE = 0.100 ..

\$ EXTERIOR WAL1 TYP
 EXWAL1 =CONSTRUCTION U-VALUE = 0.080 ..

\$ INTERIOR WALL 1 TYP
INTWAL1 =CONSTRUCTION U-VALUE = 0.480
ABSORPTANCE = 0.000 ..

\$ EXTERIOR DOOR TYP 01 U=.4
EXTDR01 =CONSTRUCTION U-VALUE = 0.400 ..

\$ UNDER GRND WALL 1
UWAL1 =CONSTRUCTION U-VALUE = 0.100 ..

GLTYP1 =GLASS-TYPE SHADING-COEF = 0.560
PANES = 1
GLASS-CONDUCTANCE = 0.520 ..

\$ SPACE DESCRIPTION

1EXTPER =SPACE AREA = 38634.0 VOLUME = 647120.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 51.0 CONS = EXWAL1
AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 41.3 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 96.0 CONS = EXWAL1
AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 183.0 CONS = EXWAL1
AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 148.2 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 384.5 CONS = EXWAL1
AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 311.5 G-T = GLTYP1 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01
MULTIPLIER = 2.0 ..

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1
AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 50.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 40.5 G-T = GLTYP1 ..

1INTPER =SPACE AREA = 7696.0 VOLUME = 128908.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 156.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 126.4 G-T = GLTYP1 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = ROOFCON1 ..

2EXTPER =SPACE AREA = 25789.0 VOLUME = 251443.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1
AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1
AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1
AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1
AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 309.0 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

2INTPER =SPACE AREA = 20421.0 VOLUME = 199105.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 39.0 CONS = EXWAL1
 AZIMUTH = 0 ..

WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1
 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

2MIDL =SPACE AREA = 40144.0 VOLUME = 391404.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.8
 INF-METHOD = NONE ..

E-W HEIGHT = 15.3 WIDTH = 14.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ..

3EXTPER =SPACE AREA = 25789.0 VOLUME = 251443.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1
 AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1
 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1
 AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1
 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 309.4 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

3MIDL =SPACE AREA = 49416.0 VOLUME = 481806.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.8
 INF-METHOD = NONE ..

E-W HEIGHT = 15.3 WIDTH = 14.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ..

3INTPER =SPACE AREA = 20421.0 VOLUME = 199105.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 39.0 CONS = EXWAL1
 AZIMUTH = 0 ..

WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1
 AZIMUTH = 135 ..
 WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..
 WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

4EXTPER =SPACE AREA = 25789.0 VOLUME = 251443.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 270 ..
 WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 96.0 CONS = EXWAL1
 AZIMUTH = 180 ..
 WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 280.0 CONS = EXWAL1
 AZIMUTH = 135 ..
 WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 548.0 CONS = EXWAL1
 AZIMUTH = 90 ..
 WINDOW HEIGHT = 2.7 WIDTH = 443.9 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 260.0 CONS = EXWAL1
 AZIMUTH = 45 ..
 WINDOW HEIGHT = 2.7 WIDTH = 210.6 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 382.0 CONS = EXWAL1
 AZIMUTH = 315 ..
 WINDOW HEIGHT = 2.7 WIDTH = 309.4 G-T = GLTYP1 ..
 E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..
 WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..
 ROOF HEIGHT = 257.9 WIDTH = 100.0 CONS = ROOFCON1

TILT = 0 ..

4MIDL =SPACE AREA = 36103.0 VOLUME = 352004.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.8
 EQUIPMENT-KW = 1.0 INF-METHOD = NONE ..

E-W HEIGHT = 15.3 WIDTH = 14.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 11.3 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 165.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 133.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 70.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 56.7 G-T = GLTYP1 ..

ROOF HEIGHT = 361.0 WIDTH = 100.0 CONS = ROOFCON1
 TILT = 0 ..

4INTPER =SPACE AREA = 20421.0 VOLUME = 199105.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQSCHA EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 39.0 CONS = EXWAL1
 AZIMUTH = 0 ..

WINDOW HEIGHT = 2.7 WIDTH = 31.6 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 166.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 135.0 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 433.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 350.7 G-T = GLTYP1 ..

E-W HEIGHT = 15.3 WIDTH = 146.0 CONS = EXWAL1
 AZIMUTH = 225 ..

 WINDOW HEIGHT = 2.7 WIDTH = 118.3 G-T = GLTYP1 ..

 E-W HEIGHT = 15.3 WIDTH = 427.0 CONS = EXWAL1
 AZIMUTH = 135 ..

 WINDOW HEIGHT = 2.7 WIDTH = 346.0 G-T = GLTYP1 ..

 E-W HEIGHT = 15.3 WIDTH = 17.0 CONS = EXWAL1
 AZIMUTH = 225 ..

 WINDOW HEIGHT = 2.7 WIDTH = 13.8 G-T = GLTYP1 ..

 ROOF HEIGHT = 204.2 WIDTH = 100.0 CONS = ROOFCON1
 TILT = 0 ..

0INTEXTPER =SPACE AREA = 18905.0 VOLUME = 151240.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 3.1
 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = Y24FULON7D EQUIPMENT-W/SQFT = 1.3
 INF-METHOD = NONE ..

E-W HEIGHT = 14.0 WIDTH = 110.0 CONS = EXWAL1
 AZIMUTH = 180 ..

 WINDOW HEIGHT = 2.7 WIDTH = 89.1 G-T = GLTYP1 ..

 E-W HEIGHT = 14.0 WIDTH = 60.5 CONS = EXWAL1
 AZIMUTH = 225 ..

 WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..

 U-W HEIGHT = 14.0 WIDTH = 75.0 CONS = UWAL1 ..

 U-W HEIGHT = 95.0 WIDTH = 39.0 CONS = UWAL1 ..

 E-W HEIGHT = 14.0 WIDTH = 80.0 CONS = EXWAL1
 AZIMUTH = 135 ..

 WINDOW HEIGHT = 2.7 WIDTH = 64.8 G-T = GLTYP1 ..

 E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
 AZIMUTH = 270 ..

 WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

 ROOF HEIGHT = 484.7 WIDTH = 39.0 CONS = ROOFCON1
 TILT = 0 ..

END ..
 COMPUTE LOADS ..

INPUT SYSTEMS ..

```

$-----$
$ E Z - D O E   S Y S T E M S   I N P U T $
$-----$

```

\$ GENERAL PROJECT DATA

```

TITLE  LINE-1 *          ENTECH  ENGINEERING          *
        LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
        LINE-3 *      READING,      PA      19603      *

        LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
        LINE-5 *FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1  * ..

ABORT      ERRORS ..
DIAGNOSTIC  WARNINGS ..
SYSTEMS-REPORT SUMMARY=(SS-A,SS-D)
              REPORT-FREQUENCY = MONTHLY ..

```

\$ SCHEDULES

```

D24FULON    =DAY-SCHEDULE  (1,24) (1.) ..
D24FULOF    =DAY-SCHEDULE  (1,24) (0.) ..
DHTSET1     =DAY-SCHEDULE  (1,24) (72.) ..
DCLSET1     =DAY-SCHEDULE  (1,24) (75.) ..
DLOTMPNOHT  =DAY-SCHEDULE  (1,24) (0.) ..
DHITMPNOCL  =DAY-SCHEDULE  (1,24) (90.) ..
SCH_1       =DAY-SCHEDULE  (1,24) (1.) ..
SCH_2       =DAY-SCHEDULE  (1,24) (0.) ..
OF_PKD      =DAY-SCHEDULE  (1,7) (1.) ..
              (8,19) (0.) ..
              (20,24) (1.) ..
ON_PKD      =DAY-SCHEDULE  (1,7) (0.) ..
              (8,19) (1.) ..
              (20,24) (0.) ..
SET_BACKD1  =DAY-SCHEDULE  (1,5) (80.) ..
              (6,19) (75.) ..
              (20,24) (80.) ..
SET_BACKD2  =DAY-SCHEDULE  (1,24) (80.) ..
SET_BACKD3  =DAY-SCHEDULE  (1,5) (67.) ..
              (6,19) (72.) ..
              (20,24) (67.) ..
SET_BACKD4  =DAY-SCHEDULE  (1,24) (67.) ..
FAN_WKD     =DAY-SCHEDULE  (1,5) (0.) ..
              (6,19) (1.) ..
              (20,24) (0.) ..
FAN_WKEND   =DAY-SCHEDULE  (1,24) (0.) ..

W24FULON    =WEEK-SCHEDULE  (ALL) D24FULON  ..
WFULOF247D  =WEEK-SCHEDULE  (ALL) D24FULOF  ..

WHTSET1     =WEEK-SCHEDULE  (ALL) DHTSET1   ..
WCLSET1     =WEEK-SCHEDULE  (ALL) DCLSET1   ..
WLOTMPNOHT  =WEEK-SCHEDULE  (ALL) DLOTMPNOHT ..
WHITMPNOCL  =WEEK-SCHEDULE  (ALL) DHITMPNOCL ..

```

SCH_1W =WEEK-SCHEDULE (ALL) SCH_1 ..
 SCH_2W =WEEK-SCHEDULE (ALL) SCH_2 ..
 OFF_PKW =WEEK-SCHEDULE (WD) OF_PKD
 (WEH) D24FULON ..
 ON_PKW =WEEK-SCHEDULE (WD) ON_PKD
 (WEH) D24FULOF ..
 SET_BACKW1 =WEEK-SCHEDULE (WD) SET_BACKD1
 (WEH) SET_BACKD2 ..
 SET_BACKW2 =WEEK-SCHEDULE (WD) SET_BACKD3
 (WEH) SET_BACKD4 ..
 FAN_WEEK =WEEK-SCHEDULE (WD) FAN_WKD
 (WEH) FAN_WKEND ..

 \$ YR SCHD FULON 24HRS 7D
 YFULON247D =SCHEDULE THRU DEC 31 W24FULON ..

 \$ YR SCHD HEATING SEAS 1
 YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON
 THRU OCT 15 WFULOF247D
 THRU DEC 31 W24FULON ..

 \$ YR SCH COOL SEASON 1
 YCLSEAS1 =SCHEDULE THRU MAY 15 WFULOF247D
 THRU OCT 15 W24FULON
 THRU DEC 31 WFULOF247D ..

 \$ YRSCH HTSET1 72 /NON0
 YHTSET1 =SCHEDULE THRU MAY 15 WHTSET1
 THRU OCT 15 WHTSET1
 THRU DEC 31 WHTSET1 ..

 \$ YRSCH COLSET 72/NON 130
 YCLSET1 =SCHEDULE THRU MAY 15 WCLSET1
 THRU OCT 15 WCLSET1
 THRU DEC 31 WCLSET1 ..

 SCH_1Y =SCHEDULE THRU AUG 17 SCH_2W
 THRU AUG 19 SCH_1W
 THRU DEC 31 SCH_2W ..

 OFF_PKY =SCHEDULE THRU DEC 31 OFF_PKW ..
 ON_PKY =SCHEDULE THRU DEC 31 ON_PKW ..
 SET_BACKY1 =SCHEDULE THRU DEC 31 SET_BACKW1 ..
 SET_BACKY2 =SCHEDULE THRU DEC 31 SET_BACKW2 ..
 FAN_YEAR =SCHEDULE THRU DEC 31 FAN_WEEK ..

\$ ZONE DESCRIPTION

1EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ..
1INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ..
2EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ..
2INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ..
2MIDL	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -800000.0 COOLING-CAPACITY = 16800000.0 ..
3EXTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS ..
3MIDL	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -800000.0 COOLING-CAPACITY = 16800000.0 ..
3INTPER	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL BASEBOARD-CTRL = THERMOSTATIC

SIZING-OPTION = FROM-LOADS ..

4EXTPER =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
SIZING-OPTION = FROM-LOADS ..

4MIDL =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
SIZING-OPTION = FROM-LOADS
HEATING-CAPACITY = -800000.0
COOLING-CAPACITY = 16800000.0 ..

4INTPER =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
SIZING-OPTION = FROM-LOADS ..

0INTEXTPER =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = SET_BACKY2 COOL-TEMP-SCH = SET_BACKY1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

\$ SYSTEM DESCRIPTION

1SMCAHUSZR =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0
OA-CONTROL = ENTHALPY HEATING-CAPACITY = -800000.0
MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN_YEAR
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 COOL-FT-MIN = 0.
PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT
ZONE-NAMES = (1EXTPER, 1INTPER) ..

2SPERFC =SYSTEM SYSTEM-TYPE = TPFC
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1
FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2
SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF
COOL-FT-MIN = 0.
ZONE-NAMES = (2EXTPER, 2INTPER) ..

3SPERFC =SYSTEM SYSTEM-TYPE = TPFC
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1
FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2

SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF
COOL-FT-MIN = 0.
ZONE-NAMES = (3EXTPER, 3INTPER) ..

4SPERFC =SYSTEM SYSTEM-TYPE = TPFC
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1
FAN-SCHEDULE = YFULON247D SUPPLY-DELTA-T = 0.2
SUPPLY-KW = 0.00007 NIGHT-CYCLE-CTRL = STAY-OFF
COOL-FT-MIN = 0.
ZONE-NAMES = (4EXTPER, 4INTPER) ..

SSZF2MID =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0
OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007
MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN_YEAR
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (2MIDL) ..

SSFZ3MID =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0
OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007
MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN_YEAR
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (3MIDL) ..

SSZF4MID =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0
OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007
MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN_YEAR
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (4MIDL) ..

OSMCAHUSZR =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YHTSEAS1
COOLING-SCHEDULE = YCLSEAS1 PREHEAT-T = 0.0
OA-CONTROL = ENTHALPY SUPPLY-KW = 0.00007
MIN-OUTSIDE-AIR = 0.15 FAN-SCHEDULE = FAN_YEAR
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00098
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 COOL-FT-MIN = 0.
PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (0INTEXTPER) ..

\$ HOURLY REPORT DESCRIPTION

SY_1	=REPORT-BLOCK	VARIABLE-TYPE = 1SMCAHUSZR	
		VARIABLE-LIST = (49) ..	
SY_2	=REPORT-BLOCK	VARIABLE-TYPE = 2SPERFC	
		VARIABLE-LIST = (49) ..	
SY_3	=REPORT-BLOCK	VARIABLE-TYPE = 3SPERFC	
		VARIABLE-LIST = (49) ..	
SY_4	=REPORT-BLOCK	VARIABLE-TYPE = 4SPERFC	
		VARIABLE-LIST = (49) ..	
SY_5	=REPORT-BLOCK	VARIABLE-TYPE = SSZF2MID	
		VARIABLE-LIST = (49) ..	
SY_6	=REPORT-BLOCK	VARIABLE-TYPE = SSFZ3MID	
		VARIABLE-LIST = (49) ..	
SY_7	=REPORT-BLOCK	VARIABLE-TYPE = SSZF4MID	
		VARIABLE-LIST = (49) ..	
SY_8	=REPORT-BLOCK	VARIABLE-TYPE = 0SMCAHUSZR	
		VARIABLE-LIST = (49) ..	
Z_1	=REPORT-BLOCK	VARIABLE-TYPE = 1EXTPER	
		VARIABLE-LIST = (7,6) ..	
Z_2	=REPORT-BLOCK	VARIABLE-TYPE = 1INTPER	
		VARIABLE-LIST = (7,6) ..	
Z_3	=REPORT-BLOCK	VARIABLE-TYPE = 2EXTPER	
		VARIABLE-LIST = (7,6) ..	
Z_4	=REPORT-BLOCK	VARIABLE-TYPE = 2INTPER	
		VARIABLE-LIST = (7,6) ..	
Z_5	=REPORT-BLOCK	VARIABLE-TYPE = 3EXTPER	
		VARIABLE-LIST = (7,6) ..	
Z_6	=REPORT-BLOCK	VARIABLE-TYPE = 3INTPER	
		VARIABLE-LIST = (7,6) ..	
Z_7	=REPORT-BLOCK	VARIABLE-TYPE = 4EXTPER	
		VARIABLE-LIST = (7,6) ..	
Z_8	=REPORT-BLOCK	VARIABLE-TYPE = 4INTPER	
		VARIABLE-LIST = (7,6) ..	
Z_9	=REPORT-BLOCK	VARIABLE-TYPE = 2MIDL	
		VARIABLE-LIST = (7,6) ..	
Z_10	=REPORT-BLOCK	VARIABLE-TYPE = 3MIDL	
		VARIABLE-LIST = (7,6) ..	
Z_11	=REPORT-BLOCK	VARIABLE-TYPE = 4MIDL	
		VARIABLE-LIST = (7,6) ..	
Z_12	=REPORT-BLOCK	VARIABLE-TYPE = 0INTEXTPER	
		VARIABLE-LIST = (7,6) ..	
RS_1	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	
		REPORT-BLOCK = (SY_1,SY_2,SY_3,SY_4)	
..			
RS_2	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	
		REPORT-BLOCK = (SY_5,SY_6,SY_7,SY_8)	
..			
RS_3	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	
		REPORT-BLOCK = (Z_1,Z_2)	
..			
RS_4	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	
		REPORT-BLOCK = (Z_3,Z_4)	
..			
RS_5	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	
		REPORT-BLOCK = (Z_5,Z_6)	
..			
RS_6	= HOURLY-REPORT	REPORT-SCHEDULE = ON_PKY	

REPORT-BLOCK = (Z_7,Z_8)

RS_7 = HOURLY-REPORT REPORT-SCHEDULE = ON_PKY
REPORT-BLOCK = (Z_9,Z_10)

RS_8 = HOURLY-REPORT REPORT-SCHEDULE = ON_PKY
REPORT-BLOCK = (Z_11,Z_12)

END ..
COMPUTE SYSTEMS ..

INPUT PLANT ..

\$-----\$
\$ E Z - D O E P L A N T S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
LINE-3 * READING, PA 19603 *

LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
LINE-5 *FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1 * ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
PLANT-REPORT SUMMARY=(PS-C,PS-D,PS-H,BEPS)

REPORT-FREQUENCY = MONTHLY ..

\$ SCHEDULES

D24FULON =DAY-SCHEDULE (1,24) (1.) ..
D24FULOF =DAY-SCHEDULE (1,24) (0.) ..
OFF_PKDP =DAY-SCHEDULE (1,7) (1.)
(8,19) (0.)
(20,24) (1.) ..
ON_PKDP =DAY-SCHEDULE (1,7) (0.)
(8,19) (1.)
(20,24) (0.) ..

W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..
W24FULOF7D =WEEK-SCHEDULE (ALL) D24FULOF ..
OFF_PKWP =WEEK-SCHEDULE (WD) OFF_PKDP
(WEH) D24FULON ..
ON_PKWP =WEEK-SCHEDULE (WD) ON_PKDP
(WEH) D24FULOF ..

\$ YRSCH FUL ON 24HR/7D

Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ YRSCH HEATING SEAS1

YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
THRU OCT 15 W24FULOF7D
THRU DEC 31 W24FULON7D ..

\$ YRSCH COOL SEAS1

YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D
THRU OCT 15 W24FULON7D
THRU DEC 31 W24FULOF7D ..

TEST_1 =SCHEDULE THRU AUG 17 W24FULOF7D
THRU AUG 19 W24FULON7D
THRU DEC 31 W24FULOF7D ..

OFF_PKYP =SCHEDULE THRU DEC 31 OFF_PKWP ..

ON_PKYP =SCHEDULE THRU DEC 31 ON_PKWP ..

\$ EQUIPMENT DESCRIPTION

HWBLR1 =PLANT-EQUIPMENT TYPE = HW-BOILER
SIZE = -999. ..

HCCC-CHILR =PLANT-EQUIPMENT TYPE = HERM-CENT-CHLR
SIZE = 7.8 ..

MN-COOLTWR =PLANT-EQUIPMENT TYPE = COOLING-TWR
SIZE = -999. ..

PLANT-PARAMETERS BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2
TWR-WTR-SET-POINT = 85. TWR-PUMP-HEAD = 50.
TWR-CELL-MAX-GPM = 1.0 TWR-FAN-OFF-CFM = 0.1
CHILLER-CONTROL = STANDBY CHILL-WTR-T = 55.
CCIRC-HEAD = 100.0 CCIRC-DESIGN-T-DROP = 5.0
HCIRC-HEAD = 100.0 HCIRC-DESIGN-T-DROP = 25.0 ..

ENERGY-RESOURCE RESOURCE = FUEL-OIL ..
ENERGY-RESOURCE RESOURCE = ELECTRICITY ..

\$ HOURLY REPORT DESCRIPTION

P_1 =REPORT-BLOCK VARIABLE-TYPE = HERM-CENT-CHLR
VARIABLE-LIST = (1,3,12,13) ..

P_2 =REPORT-BLOCK VARIABLE-TYPE = COOLING-TWR
VARIABLE-LIST = (8,10,20,21) ..

P_3 =REPORT-BLOCK VARIABLE-TYPE = HW-BOILER
VARIABLE-LIST = (1,3,4,7) ..

RP_1 = HOURLY-REPORT REPORT-SCHEDULE = ON_PKYP
REPORT-BLOCK = (P_1,P_2)

RP_2 = HOURLY-REPORT REPORT-SCHEDULE = ON_PKYP
REPORT-BLOCK = (P_3)

..
END ..
COMPUTE PLANT ..

INPUT ECONOMICS ..

\$-----\$
\$ E Z - D O E E C O N O M I C S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
 LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
 LINE-3 * READING, PA 19603 *

 LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
 LINE-5 *FTMOACO - SIM MCA H2O ONLY W/OA SCHD1 * ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
ECONOMICS-REPORT VERIFICATION=(EV-B)
 SUMMARY=(ES-D,ES-E) ..

\$ SCHEDULES

D24OFPKKWH =DAY-CHARGE-SCH (1,24) (4OFPKKWH) ..

DHTGDEMKBWH =DAY-CHARGE-SCH (1,7) (4OFPKKWH)
 (8,19) (4OFPKKWH,EONPKDMHTG)
 (20,24) (4OFPKKWH) ..

DCLGDEMKBWH =DAY-CHARGE-SCH (1,7) (4OFPKKWH)
 (8,19) (EONPKKBWH,EONPKDMCL)
 (20,24) (4OFPKKWH) ..

D24OFPKBWH =DAY-CHARGE-SCH (1,24) (4OFPKBWH) ..

WHTG =WEEK-SCHEDULE (WD) DHTGDEMKBWH
 (WEH) D24OFPKBWH ..

WCLG =WEEK-SCHEDULE (WD) DCLGDEMKBWH
 (WEH) D24OFPKBWH ..

\$ YRSCH ELEC1
YELEC1 =SCHEDULE THRU MAY 31 WHTG
 THRU SEP 30 WCLG
 THRU DEC 31 WHTG ..

\$ CHARGE ASSIGNMENT

4OFPKBWH =C-A RESOURCE = ELECTRICITY TYPE = ENERGY
 UNIFORM-CHARGE = 0.0719 ..

EONPKKBWH =C-A RESOURCE = ELECTRICITY TYPE = ENERGY

UNIFORM-CHARGE = 0.0801 ..

EONPKDMHTG =C-A RESOURCE = ELECTRICITY TYPE = DEMAND
UNIFORM-CHARGE = 8.57 ..

EONPKDMCL =C-A RESOURCE = ELECTRICITY TYPE = DEMAND
UNIFORM-CHARGE = 9.47 ..

\$ ENERGY COST

ENERGY-COST RESOURCE = FUEL-OIL UNIT = 138690.
UNIFORM-COST = .59 ..

ENERGY-COST RESOURCE = ELECTRICITY UNIT = 3413.
ASSIGN-SCHEDULE = YELEC1 ..

END ..
COMPUTE ECONOMICS ..
STOP ..

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- NEWARK, NJ

(UNITS=MBTU)	WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING -272.143	-235.737	0.000	-2.939	-634.744	-273.952	90.257	21.964	302.375	139.833	0.000	-865.087
	SEN CL -88.805	-84.339	0.000	-6.694	-52.599	-83.527	46.116	44.024	555.107	240.910	0.000	570.193
	LAT CL				0.000			36.621		0.000	0.000	36.621
FEB	HEATING -218.424	-191.017	0.000	-2.457	-533.922	-224.334	102.075	16.750	234.412	112.097	0.000	-704.819
	SEN CL -87.312	-75.890	0.000	-7.318	-69.480	-85.655	61.199	43.069	543.078	232.517	0.000	554.207
	LAT CL				0.000			35.840		0.000	0.000	35.840
MAR	HEATING -179.153	-144.817	0.000	-0.896	-473.362	-188.526	110.535	15.468	218.676	98.211	0.000	-543.864
	SEN CL -92.850	-85.440	0.000	-10.027	-104.621	-98.050	109.224	55.576	698.190	296.472	0.000	768.475
	LAT CL				1.353			46.222		0.000	0.000	47.574
APR	HEATING -85.349	-65.463	0.000	-0.070	-202.330	-90.633	66.229	7.398	108.121	49.780	0.000	-212.315
	SEN CL -71.480	-54.761	0.000	-9.954	-97.012	-92.076	181.122	58.424	745.584	324.314	0.000	984.160
	LAT CL				10.991			47.597		0.000	0.000	58.589
MAY	HEATING -42.064	-31.012	0.000	0.000	-93.948	-44.586	37.149	3.678	56.766	27.623	0.000	-86.394
	SEN CL -36.767	-13.580	0.000	-8.090	-63.422	-68.791	252.767	62.335	801.088	353.208	0.000	1278.748
	LAT CL				45.072			50.670		0.000	0.000	95.742
JUN	HEATING -5.192	-4.771	0.000	0.000	-8.496	-5.522	4.896	0.530	8.609	4.277	0.000	-5.668
	SEN CL 12.210	42.748	0.000	-5.639	17.368	-29.364	266.725	67.590	871.311	375.945	0.000	1618.894
	LAT CL				131.621			54.193		0.000	0.000	185.814
JUL	HEATING -0.957	-0.927	0.000	0.000	-2.463	-1.053	0.941	0.137	2.316	1.200	0.000	-0.807
	SEN CL 37.004	64.735	0.000	-3.864	44.720	-9.099	278.968	63.686	830.929	373.892	0.000	1680.972
	LAT CL				174.480			50.873		0.000	0.000	225.353
AUG	HEATING -4.534	-4.023	0.000	0.000	-5.615	-4.698	2.765	0.388	6.648	3.810	0.000	-5.259
	SEN CL 18.893	43.115	0.000	-2.618	25.941	-22.592	255.873	70.525	908.241	390.393	0.000	1687.771
	LAT CL				168.708			56.571		0.000	0.000	225.278
SEP	HEATING -13.768	-12.033	0.000	0.000	-22.322	-14.263	10.316	1.427	21.523	10.213	0.000	-18.907
	SEN CL -29.372	-8.509	0.000	-2.428	-46.479	-59.584	216.242	64.243	829.882	363.324	0.000	1327.318
	LAT CL				114.185			51.602		0.000	0.000	165.787
OCT	HEATING -64.933	-50.966	0.000	0.000	-121.023	-67.644	41.892	5.425	83.459	40.759	0.000	-133.032
	SEN CL -69.273	-60.550	0.000	-3.516	-87.576	-88.728	157.492	58.247	747.498	333.778	0.000	987.371
	LAT CL				19.721			47.506		0.000	0.000	67.226
NOV	HEATING -143.714	-119.464	0.000	-0.102	-299.257	-147.606	61.607	11.786	171.038	79.471	0.000	-386.243
	SEN CL -83.307	-80.952	0.000	-5.148	-74.613	-84.796	69.595	51.424	651.692	287.342	0.000	731.238
	LAT CL				17.222			42.566		0.000	0.000	59.788
DEC	HEATING -239.997	-202.021	0.000	-1.568	-600.226	-243.249	77.138	20.889	288.299	129.441	0.000	-771.295
	SEN CL -85.360	-86.599	0.000	-6.050	-58.126	-81.374	45.636	45.404	573.762	252.411	0.000	599.703
	LAT CL				0.000			37.607		0.000	0.000	37.607
	HEATING -1270.234	-1062.250	0.000	-8.032	-2997.727	-1306.058	605.806	105.839	1502.228	696.708	0.000	-3733.721

TOT	SEN CL	-576.415	-400.023	0.000	-71.346	-565.898	-803.641	1940.944	684.535	8755.893	3824.610	0.000	12788.659
	LAT CL					683.358			557.718		0.000	0.000	1241.076

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 1SMCAHUSZR WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE																					
NAME		MULTIPLIER																					
1SMCAHUSZR		1.000																					
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING									
FAN		ELEC	DELTA-T	FAN		ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR		EIR									
(CFM)		(KW)	(F)	(CFM)		(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)		(BTU/BTU)									
30680.		30.066	2.4	0.		0.000	0.0	0.150	1162.387	0.690	-800.000	0.00		0.00									
ZONE		SUPPLY		EXHAUST		FAN		MINIMUM		OUTSIDE		COOLING		EXTRACTION		HEATING		ADDITION					
NAME		FLOW		FLOW		(KW)		FLOW		AIR		CAPACITY		SENSIBLE		RATE		CAPACITY		RATE			
								RATIO		FLOW		(KBTU/HR)		(SHR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		MULTIPLIER	
1EXTPER		25920.		0.		0.000		1.000		3888.		0.00		0.00		559.87		0.00		-488.64		1.0	
1INTPER		4760.		0.		0.000		1.000		714.		0.00		0.00		102.82		0.00		-89.73		1.0	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 2SPERFC WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE									
NAME		MULTIPLIER									
2SPERFC		1.000									
SUPPLY			RETURN			OUTSIDE	COOLING	HEATING		COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
49470.	0.000	0.2	0.	0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00
ZONE	SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	(KW)	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
				RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
2EXTPER	27710.	0.	1.940	1.000	0.	954.80	0.70	598.41	-1422.16	-1428.11	1.0
2INTPER	21760.	0.	1.523	1.000	0.	756.73	0.70	469.97	-1116.79	-1121.46	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 3SPERFC WEATHER FILE- NEWARK, NJ

SYSTEM NAME		ALTITUDE MULTIPLIER										
3SPERFC		1.000										
SUPPLY			RETURN			OUTSIDE	COOLING	HEATING		COOLING	HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
49470.	0.000	0.2	0.	0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00	
ZONE		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FLOW	(KW)	FLOW RATIO	AIR FLOW	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	MULTIPLIER
3EXTPER		27710.	0.	1.940	1.000	0.	954.80	0.70	598.44	-1422.16	-1428.11	1.0
3INTPER		21760.	0.	1.523	1.000	0.	756.73	0.70	469.97	-1116.79	-1121.46	1.0

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SV-A SYSTEM DESIGN PARAMETERS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 4SPERFC

DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

SYSTEM NAME		ALTITUDE MULTIPLIER	
4SPERFC		1.000	

SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR				
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)				
58060.	0.000	0.2	0.	0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00				

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW	COOLING CAPACITY (KBTU/HR)	SENSIBLE RATE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
4EXTPER	32540.	0.	2.278	1.000	0.	1112.80	0.70	702.80	-1670.05	-1677.03	1.0
4INTPER	25520.	0.	1.786	1.000	0.	873.11	0.70	551.02	-1309.76	-1315.24	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS SSZF2MID WEATHER FILE- NEWARK, NJ

SYSTEM NAME		ALTITUDE MULTIPLIER	
SSZF2MID		1.000	

SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR				
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)				
24400.	23.912	2.4	0.	0.000	0.0	0.150	925.890	0.690	-1464.441	0.00	0.00				

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW	COOLING CAPACITY (KBTU/HR)	EXTRACTION		HEATING CAPACITY (KBTU/HR)	ADDITION RATE	MULTIPLIER
							SENSIBLE (SHR)	RATE (KBTU/HR)			
2MIDL	24400.	0.	0.000	1.000	3660.	0.00	0.00	527.04	0.00	-1264.90	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS SSFZ3MID WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE													
NAME		MULTIPLIER													
SSFZ3MID		1.000													
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR				
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)				
29850.	29.253	2.4	0.	0.000	0.0	0.150	1132.830	0.690	-1791.540	0.00	0.00				
ZONE		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION				
NAME		FLOW	FLOW	(KW)	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE				
					RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)				
3MIDL		29850.	0.	0.000	1.000	4478.	0.00	0.00	644.76	0.00	-1547.42	1.0			

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS SSZF4MID WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE													
NAME		MULTIPLIER													
SSZF4MID		1.000													
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR				
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)				
30070.	29.469	2.4	0.	0.000	0.0	0.150	1135.188	0.691	-1804.744	0.00	0.00				
ZONE		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION				
NAME	FLOW	FLOW	(KW)	FLOW	RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER			
4MIDL	30070.	0.	0.000	1.000	4511.	0.00	0.00	649.51	0.00	-1558.83	1.0				

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 0SMCAHUSZR WEATHER FILE- NEWARK, NJ

SYSTEM NAME		ALTITUDE MULTIPLIER	
0SMCAHUSZR		1.000	

SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR				
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)				
17920.	17.562	2.4	0.	0.000	0.0	0.150	675.350	0.691	-1075.524	0.00	0.00				

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
0INTEXTPER	17920.	0.	0.000	1.000	2688.	0.00	0.00	387.07	0.00	-928.97	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING		ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-806.201	5	20	15.F	12.F	-3786.090	417143.	1420.651
FEB	0.00000					0.000	-635.981	20	3	10.F	7.F	-4087.203	376069.	1420.651
MAR	0.00000					0.000	-432.909	5	1	29.F	24.F	-2218.542	439182.	1420.651
APR	0.00000					0.000	-126.976	11	6	35.F	35.F	-1706.639	419518.	1420.651
MAY	485.67633	26	15	86.F	71.F	6298.961	-12.614	4	2	40.F	35.F	-279.126	433551.	1420.651
JUN	1665.38916	13	15	98.F	74.F	7296.639	0.000					0.000	433468.	1420.651
JUL	1847.39661	13	14	90.F	73.F	6964.448	0.000					0.000	419270.	1420.651
AUG	1843.29443	18	15	94.F	74.F	7204.293	0.000					0.000	450948.	1420.651
SEP	1157.01685	20	14	83.F	72.F	6181.995	0.000					0.000	420016.	1420.651
OCT	205.22958	14	15	77.F	62.F	4954.120	-22.207	26	6	43.F	40.F	-776.548	412488.	1420.651
NOV	0.00000					0.000	-288.533	25	6	38.F	37.F	-2276.397	401453.	1420.651
DEC	0.00000					0.000	-702.332	26	7	25.F	24.F	-2637.494	416299.	1420.651
TOTAL	7204.001						-3027.752						5039503.	
MAX						7296.639						-4087.203		1420.651

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SMCAHUSZR WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING	ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-0.850	3	6	31.F	28.F	-197.626	56271.	203.731
FEB	0.00000					0.000	-0.268	7	7	15.F	13.F	-29.149	50885.	203.731
MAR	0.00000					0.000	-0.012	25	6	28.F	25.F	-7.991	59973.	203.731
APR	0.00000					0.000	0.000					0.000	58205.	203.731
MAY	53.54640	26	14	83.F	71.F	879.738	-0.057	10	17	87.F	68.F	-9.676	60931.	203.731
JUN	206.00967	13	13	95.F	75.F	988.951	0.000					0.000	60477.	203.731
JUL	227.73489	19	14	85.F	74.F	939.398	0.000					0.000	58178.	203.731
AUG	237.14639	18	16	91.F	77.F	990.470	0.000					0.000	62318.	203.731
SEP	142.15143	20	12	80.F	75.F	939.177	0.000					0.000	57874.	203.731
OCT	18.88570	14	14	75.F	61.F	705.816	0.000					0.000	56284.	203.731
NOV	0.00000					0.000	0.000					0.000	54430.	203.731
DEC	0.00000					0.000	-0.210	8	6	19.F	17.F	-29.654	56301.	203.731
	-----					-----	-----					-----	-----	-----
TOTAL	885.475						-1.398						692103.	
MAX						990.470						-197.626		203.731

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SPERFC WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING	ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-204.373	5	20	15.F	12.F	-1172.794	49885.	176.678
FEB	0.00000					0.000	-161.799	20	3	10.F	7.F	-1115.597	45103.	176.678
MAR	0.00000					0.000	-108.891	5	1	29.F	24.F	-669.678	52738.	176.678
APR	0.00000					0.000	-31.192	11	4	37.F	36.F	-479.441	49242.	176.678
MAY	86.59464	16	2	70.F	64.F	1289.167	-2.907	2	22	50.F	39.F	-62.214	49885.	176.678
JUN	246.58362	13	15	98.F	74.F	999.814	0.000					0.000	50668.	176.678
JUL	267.83667	13	14	90.F	73.F	949.750	0.000					0.000	48459.	176.678
AUG	258.52383	18	15	94.F	74.F	1005.357	0.000					0.000	52738.	176.678
SEP	180.10347	7	15	82.F	64.F	796.730	0.000					0.000	49242.	176.678
OCT	45.34973	14	15	77.F	62.F	663.986	-3.223	26	6	43.F	40.F	-155.664	48459.	176.678
NOV	0.00000					0.000	-67.506	25	6	38.F	37.F	-630.040	47816.	176.678
DEC	0.00000					0.000	-182.107	26	7	25.F	24.F	-686.903	49885.	176.678

TOTAL	1084.992						-761.998						594129.	
MAX						1289.167						-1172.794		176.678

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SPERFC WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	0.00000				0.000	-204.383	5 20	15.F	12.F	-1172.817	49885.	176.678	
FEB	0.00000				0.000	-161.807	20 3	10.F	7.F	-1115.619	45103.	176.678	
MAR	0.00000				0.000	-108.895	5 1	29.F	24.F	-669.697	52738.	176.678	
APR	0.00000				0.000	-31.193	11 4	37.F	36.F	-479.449	49242.	176.678	
MAY	86.59817	16 2	70.F	64.F	1289.196	-2.907	2 22	50.F	39.F	-62.215	49885.	176.678	
JUN	246.59200	13 15	98.F	74.F	999.837	0.000				0.000	50668.	176.678	
JUL	267.84625	13 14	90.F	73.F	949.770	0.000				0.000	48459.	176.678	
AUG	258.53091	18 15	94.F	74.F	1005.376	0.000				0.000	52738.	176.678	
SEP	180.10663	7 15	82.F	64.F	796.743	0.000				0.000	49242.	176.678	
OCT	45.34949	14 15	77.F	62.F	663.989	-3.223	26 6	43.F	40.F	-155.696	48459.	176.678	
NOV	0.00000				0.000	-67.511	25 6	38.F	37.F	-630.055	47816.	176.678	
DEC	0.00000				0.000	-182.117	26 7	25.F	24.F	-686.924	49885.	176.678	

TOTAL	1085.023					-762.036					594129.		
MAX					1289.196					-1172.817		176.678	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SPERFC WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	LOAD	ENERGY	OF	MAX	BULB	BULB	LOAD	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-345.504	5	20	15.F	12.F	-1440.479	50332.	177.279
FEB	0.00000					0.000	-277.102	20	3	10.F	7.F	-1388.293	45508.	177.279
MAR	0.00000					0.000	-204.234	5	1	29.F	24.F	-879.167	53185.	177.279
APR	0.00000					0.000	-63.949	9	4	32.F	27.F	-725.252	49675.	177.279
MAY	79.56396	26	15	86.F	71.F	939.903	-6.514	4	4	39.F	35.F	-231.386	50332.	177.279
JUN	261.59937	13	15	98.F	74.F	1180.491	0.000					0.000	51101.	177.279
JUL	294.83423	13	14	90.F	73.F	1084.089	0.000					0.000	48906.	177.279
AUG	274.80002	18	15	94.F	74.F	1154.626	0.000					0.000	53185.	177.279
SEP	170.26332	7	14	82.F	64.F	896.833	0.000					0.000	49675.	177.279
OCT	30.41889	14	15	77.F	62.F	647.320	-15.717	25	6	41.F	36.F	-500.299	48906.	177.279
NOV	0.00000					0.000	-145.622	25	6	38.F	37.F	-792.909	48249.	177.279
DEC	0.00000					0.000	-307.718	26	7	25.F	24.F	-906.660	50332.	177.279

TOTAL	1111.481						-1366.360						599332.	
MAX						1180.491						-1440.479		177.279

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSZF2MID WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING	ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-0.140	17	4	16.F	14.F	-22.945	53835.	184.421
FEB	0.00000					0.000	-0.346	20	4	9.F	7.F	-28.400	48580.	184.421
MAR	0.00000					0.000	0.000					0.000	57080.	184.421
APR	0.00000					0.000	0.000					0.000	54998.	184.421
MAY	48.87048	26	14	83.F	71.F	722.120	-0.041	10	17	87.F	68.F	-7.125	56681.	184.421
JUN	178.64218	13	13	95.F	75.F	790.296	0.000					0.000	55556.	184.421
JUL	194.48663	19	14	85.F	74.F	767.954	0.000					0.000	53755.	184.421
AUG	204.10178	18	16	91.F	77.F	795.853	0.000					0.000	57964.	184.421
SEP	130.62488	20	12	80.F	75.F	775.442	0.000					0.000	53994.	184.421
OCT	20.88273	14	15	77.F	62.F	600.384	0.000					0.000	54018.	184.421
NOV	0.00000					0.000	0.000					0.000	52575.	184.421
DEC	0.00000					0.000	-0.007	27	5	21.F	19.F	-7.429	53787.	184.421

TOTAL	777.609						-0.535						652815.	
MAX						795.853						-28.400		184.421

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSFZ3MID WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
JAN	0.00000				0.000	-0.122	17 5	16.F	14.F	-26.723	66437.	226.834	
FEB	0.00000				0.000	-0.417	20 4	9.F	7.F	-34.467	59946.	226.834	
MAR	0.00000				0.000	0.000				0.000	70397.	226.834	
APR	0.00000				0.000	0.000				0.000	67767.	226.834	
MAY	60.04546	26 14	83.F	71.F	884.621	-0.050	10 17	87.F	68.F	-8.944	69713.	226.834	
JUN	219.02705	13 13	95.F	75.F	967.301	0.000				0.000	68343.	226.834	
JUL	238.13353	19 14	85.F	74.F	940.303	0.000				0.000	66095.	226.834	
AUG	250.13724	18 16	91.F	77.F	973.837	0.000				0.000	71274.	226.834	
SEP	160.69432	20 12	80.F	75.F	950.956	0.000				0.000	66422.	226.834	
OCT	25.98936	14 15	77.F	62.F	735.752	0.000				0.000	66475.	226.834	
NOV	0.00000				0.000	0.000				0.000	64822.	226.834	
DEC	0.00000				0.000	0.000				0.000	66378.	226.834	

TOTAL	954.027					-0.589					804023.		
MAX					973.837					-34.467		226.834	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SSZF4MID WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC- TRICAL ENERGY	MAXIMUM
	ENERGY (MBTU)	OF MAX		BULB	BULB	COOLING LOAD (KBTU/HR)		OF MAX		BULB	BULB	HEATING LOAD (KBTU/HR)		LOAD (KWH)
JAN	0.00000					0.000	-46.775	10	6	19.F	17.F	-440.053	52613.	174.320
FEB	0.00000					0.000	-32.560	20	7	8.F	6.F	-516.131	46702.	174.320
MAR	0.00000					0.000	-10.812	6	7	34.F	31.F	-278.698	53734.	174.320
APR	0.00000					0.000	-0.642	11	6	35.F	35.F	-176.844	51724.	174.320
MAY	42.36839	26	14	83.F	71.F	761.691	-0.102	3	6	39.F	33.F	-18.083	55324.	174.320
JUN	187.35571	13	13	95.F	75.F	906.793	0.000					0.000	56277.	174.320
JUL	217.72856	29	13	88.F	73.F	856.526	0.000					0.000	54660.	174.320
AUG	218.72540	17	13	86.F	74.F	869.120	0.000					0.000	58390.	174.320
SEP	113.27917	20	12	80.F	75.F	771.033	0.000					0.000	54199.	174.320
OCT	9.77956	14	14	75.F	61.F	572.149	-0.044	25	6	41.F	36.F	-15.953	50534.	174.320
NOV	0.00000					0.000	-7.841	14	6	31.F	27.F	-296.989	48790.	174.320
DEC	0.00000					0.000	-29.089	27	5	21.F	19.F	-399.486	51670.	174.320
	-----					-----	-----					-----	-----	-----
TOTAL	789.237						-127.865						634615.	
MAX						906.793						-516.131		174.320

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSMCAHUSZR WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING	TIME		DRY-	WET-	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
	ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP			
JAN	0.00000					0.000	-4.054	10	6	19.F	17.F	-221.000	37887.	100.709
FEB	0.00000					0.000	-1.681	7	6	14.F	12.F	-235.263	34243.	100.709
MAR	0.00000					0.000	-0.065	24	6	30.F	26.F	-15.548	39339.	100.709
APR	0.00000					0.000	0.000					0.000	38667.	100.709
MAY	28.08884	26	14	83.F	71.F	489.535	-0.035	10	17	87.F	68.F	-5.218	40802.	100.709
JUN	119.57966	13	13	95.F	75.F	569.703	0.000					0.000	40376.	100.709
JUL	138.79631	29	13	88.F	73.F	532.865	0.000					0.000	40760.	100.709
AUG	141.32867	18	16	91.F	77.F	562.700	0.000					0.000	42342.	100.709
SEP	79.79346	20	12	80.F	75.F	515.543	0.000					0.000	39369.	100.709
OCT	8.57403	14	14	75.F	61.F	383.748	0.000					0.000	39355.	100.709
NOV	0.00000					0.000	-0.053	9	6	29.F	25.F	-16.791	36957.	100.709
DEC	0.00000					0.000	-1.083	27	6	21.F	19.F	-137.388	38062.	100.709
	-----					-----	-----					-----	-----	-----
TOTAL	516.161						-6.972						468189.	
MAX						569.703						-235.263		100.709

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL	ANNUAL	FALSE	ELEC	THERMAL										
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	--	110+	HOURS	LOAD (MBTU)	LOAD (MBTU)	USED (MBTU)	USED (MBTU)
HW-BOILER	2827		616		634		478		311		139		41		28		9		4		1			5088	3096.9	0.0	202.4	4504.8
	2827		616		634		478		311		139		41		28		9		4		1							
HERM-CENT-CHLR	1286		825		408		207		244		352		266		81		3		0		0			3672	8366.2	0.0	1972.7	0.0
	1286		825		408		207		244		352		266		81		3		0		0							
COOLING-TWR	1660		651		227		116		89		77		68		102		125		115		442			3672	10338.9	0.0	807.7	0.0
	1660		651		227		116		89		77		68		102		125		115		442							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3096.9	100.0
	=====	=====
LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8366.2	100.0
	=====	=====
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	21337.4	100.0
	=====	=====
LOAD SATISFIED	21337.4	100.0
TOTAL LOAD ON PLANT	21337.3	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
 MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	0
ELECTRICAL LOADS	21337.3	21337.4	0.000	0.000	0

DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:41:33 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELRC USED (MBTU)	THERMAL USED (MBTU)												
	0	--	10	--	20	--	30	--	40	--	50	--						60	--	70	--	80	--	90	--	100	-	110+	
HW-BOILER	2851		617		617		459		307		134		57		32		9		4		1			5088	3532.8	0.0	229.0	5128.5	
	2851		617		617		459		307		134		57		32		9		4		1								
HERM-CENT-CHLR	424		57		39		21		19		16		17		17		8		236		982			1836	8721.1	0.0	2401.3	0.0	
	424		57		39		21		19		16		17		17		8		236		982								
COOLING-TWR	468		53		22		11		12		14		9		4		3		14		1226			1836	11122.4	0.0	411.5	0.0	
	468		53		22		11		12		14		9		4		3		14		1226								
CTANK-STORAGE	166		152		172		266		212		169		218		216		111		28		28			1738	5723.4	0.0	0.0	0.0	
	1738		0		0		0		0		0		0		0		0		0		0								

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 177.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 950.4 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3532.8	100.0
LOAD SATISFIED	3532.8	100.0
TOTAL LOAD ON PLANT	3532.8	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8721.1	98.2
LOAD SATISFIED	8721.1	98.2
TOTAL LOAD ON PLANT	8877.2	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	23174.3	100.0
LOAD SATISFIED	23174.3	100.0
TOTAL LOAD ON PLANT	23174.2	

STORAGE TANK USE	MBTU STORED	MBTU RETURNED	MBTU LOST	MBTU RESIDUAL
CTANK-STORAGE	5798.4	5723.4	1.71	73.27

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 0 HOURS

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/12/1996 10:41:33 PDL RUN 1
FIMOACO - SIM MCA H2O ONLY W/OA SCHED1
WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3532.8	3532.8	0.000	0.000	0
COOLING LOADS	8877.2	8721.1	671.417	33.169	218
ELECTRICAL LOADS	23174.2	23174.3	0.000	0.000	0

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:41:33 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2812.84	0.00
HVAC AUX	5352.46	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.49	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
	-----	-----
TOTAL	23174.17	5128.55

TOTAL SITE ENERGY	28302.79 MBTU	85.9 KBTU/SQFT-YR GROSS-AREA	85.9 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74720.99 MBTU	226.8 KBTU/SQFT-YR GROSS-AREA	226.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 2.5

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

DOE-2.1D 6/12/1996 10:22:54 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)									
	0	--	10	--	20	--	30	--	40	--	50	--	60						--	70	--	80	--	90	--	100	-
HW-BOILER	2851		617		617		459		307		134		57		32		9		4		1		5088	3532.8	0.0	229.0	5128.5
	2851		617		617		459		307		134		57		32		9		4		1						
HERM-CENT-CHLR	1092		504		749		469		312		340		170		36		0		0		0		3672	8802.2	0.0	1987.2	0.0
	1092		504		749		469		312		340		170		36		0		0		0						
COOLING-TWR	1230		587		542		328		143		106		122		122		112		89		291		3672	10789.4	0.0	813.3	0.0
	1230		587		542		328		143		106		122		122		112		89		291						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 177.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 950.4 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 6/12/1996 10:22:54 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HW-BOILER	3532.8	100.0
LOAD SATISFIED	3532.8	100.0
TOTAL LOAD ON PLANT	3532.8	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-CENT-CHLR	8802.2	100.0
LOAD SATISFIED	8802.2	100.0
TOTAL LOAD ON PLANT	8802.2	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	23162.0	100.0
LOAD SATISFIED	23162.0	100.0
TOTAL LOAD ON PLANT	23161.8	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING	EZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/12/1996	10:22:54	PDL RUN 1
READING, PA 19603	4130.05 FT. MONMOUTH - MYER CENTER, NJ	FTMOACO - SIM MCA H2O ONLY W/OA SCHED1			
REPORT- PS-D PLANT LOADS SATISFIED	WEATHER FILE- NEWARK, NJ				

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3532.8	3532.8	0.000	0.000	0
COOLING LOADS	8802.2	8802.2	0.000	0.000	0
ELECTRICAL LOADS	23161.8	23162.0	0.000	0.000	0

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2800.53	0.00
HVAC AUX	5352.49	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.54	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.39	0.00
	-----	-----
TOTAL	23161.97	5128.55

TOTAL SITE ENERGY	28290.50 MBTU	85.9 KBTU/SQFT-YR GROSS-AREA	85.9 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74684.07 MBTU	226.6 KBTU/SQFT-YR GROSS-AREA	226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR ----(1)	HERM-CEN T-CHLR ELECTRIC USE BTU/HR ----(3)	HERM-CEN T-CHLR ENTERING COND TEM F ----(12)	HERM-CEN T-CHLR LEAVING COLD TEM F ----(13)	COOLING- TWR WATER FLOWRATE GAL/MIN ----(8)	COOLING- TWR RANGE ----(10)	COOLING- TWR FAN ELEC BTU/HR ----(20)	COOLING- TWR PUMP ELEC BTU/HR ----(21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	6348487.	1259033.	80.3	56.0	1950.0	7.9	140410.	90465.
SM	592633024.	149378288.	25573.0	20852.3	748800.1	792.5	46451604.	34738696.
AV	796550.	200777.	34.4	28.0	1006.5	1.1	62435.	46692.
MONTHLY SUMMARY (JUN)								
MN	302722.	142762.	64.6	53.9	1950.0	0.5	106446.	90465.
MX	7271629.	1508870.	84.1	56.3	1950.0	9.1	140410.	90465.
SM	1993556224.	434153376.	50592.8	39414.0	1404000.1	2548.0	96531648.	65135048.
AV	2768828.	602991.	70.3	54.7	1950.0	3.5	134072.	90465.
MONTHLY SUMMARY (JUL)								
MN	302722.	142762.	64.4	53.9	1950.0	0.5	112750.	90465.
MX	7050099.	1439969.	82.5	56.3	1950.0	8.8	140410.	90465.
SM	2276703488.	485572096.	53494.1	40805.5	1450800.1	2892.9	102251000.	67306216.
AV	3060085.	652651.	71.9	54.8	1950.0	3.9	137434.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)							
MN 302722.	142762.	64.5	53.9	1950.0	0.5	107603.	90465.
MX 7281769.	1503519.	85.6	56.3	1950.0	9.1	140410.	90465.
SM 2224733696.	480761472.	53669.2	40786.8	1450800.1	2834.7	101112896.	67306216.
AV 2990234.	646185.	72.1	54.8	1950.0	3.8	135904.	90465.
MONTHLY SUMMARY (SEP)							
MN 302722.	142762.	64.5	53.9	1950.0	0.5	106446.	90465.
MX 6235474.	1244477.	82.3	56.0	1950.0	7.7	140410.	90465.
SM 1422730752.	342039488.	49467.6	39209.6	1404000.1	1868.7	93164680.	65135048.
AV 1976015.	475055.	68.7	54.5	1950.0	2.6	129395.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 5014499.	925996.	71.0	55.5	1950.0	6.2	140410.	90465.
SM 291873184.	95304560.	23507.7	19454.6	702000.1	426.8	41607896.	32567528.
AV 392303.	128098.	31.6	26.1	943.5	0.6	55925.	43774.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 7281769.	1508870.	85.6	56.3	1950.0	9.1	140410.	90465.
SM 8802230272.	1987209344.	256304.4	200522.8	7160400.5	11363.6	481119712.	332188736.
AV 1004821.	226850.	29.3	22.9	817.4	1.3	54922.	37921.

ENTECH ENGINEERING
READING, PA 19603
RP_2 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ
DOE-2.1D 6/12/1996 10:22:54 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHD1

PAGE 1- 1

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	---- (1)	---- (3)	---- (4)	---- (7)
MONTHLY SUMMARY (JAN)				
MN	15616.	1374.	24498.	4712348.
MX	4230237.	103672.	5165285.	4712348.
SM	941701824.	54773668.	1334094848.	3505984256.
AV	1265728.	73621.	1793138.	4712345.
MONTHLY SUMMARY (FEB)				
MN	15616.	1374.	24498.	4712348.
MX	4712348.	103672.	5654817.	4712348.
SM	757747008.	43139200.	1068134464.	3166695680.
AV	1127600.	64195.	1589486.	4712345.
MONTHLY SUMMARY (MAR)				
MN	15616.	1374.	24498.	4712348.
MX	2520241.	103672.	3353212.	4712348.
SM	496955712.	37184240.	747335360.	3505984256.
AV	667951.	49979.	1004483.	4712345.
MONTHLY SUMMARY (APR)				
MN	15616.	1374.	24498.	4712348.
MX	1867575.	103672.	2630422.	4712348.
SM	149607136.	12449244.	231204752.	3392888064.
AV	207788.	17291.	321118.	4712345.
MONTHLY SUMMARY (MAY)				
MN	0.	0.	0.	0.
MX	316145.	27821.	495961.	4712348.
SM	18507140.	1628628.	29033524.	1696444672.
AV	24875.	2189.	39024.	2280168.
MONTHLY SUMMARY (JUN)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

	HW-BOILE R LOAD BTU/HR ---- (1)	HW-BOILE R ELECTRIC USE BTU/HR ---- (3)	HW-BOILE R FUEL USE BTU/HR ---- (4)	HW-BOILE R CAPACITY RUNNING BTU/HR ---- (7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	835070.	73486.	1310036.	4712348.
SM	28528948.	2510547.	44755484.	1809540992.
AV	38345.	3374.	60155.	2432179.
MONTHLY SUMMARY (NOV)				
MN	15616.	1374.	24498.	4712348.
MX	2366441.	103672.	3184438.	4712348.
SM	333158336.	26324396.	507959936.	3392888064.
AV	462720.	36562.	705500.	4712345.
MONTHLY SUMMARY (DEC)				
MN	15616.	1374.	24498.	4712348.
MX	3005253.	103672.	3879184.	4712348.
SM	806623744.	51001972.	1165970432.	3505984256.
AV	1084172.	68551.	1567165.	4712345.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	4712348.	103672.	5654817.	4712348.
SM	3532829952.	229011888.	5128488960.	23976409088.
AV	403291.	26143.	585444.	2737033.

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1
 READING, PA 19603 4110.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY	ENERGY	UNIFORM	COST	MIN	RATE	FIXED	FIXED			
SOURCE	UNIT	COST	ESCLA-	MNTHLY	LIMIT	MNTHLY	MNTHLY	ASSIGN-	ASSIGN-	ASSIGN-
	(BTU)	/UNIT	ATION	CHARGE	/UNIT	CHARG1	CHARG2	SCHEDULE	CHARGE1	CHARGE2
		(\$)	RATE	(\$)	(\$)	(\$)	(\$)	(U-NAME)	(U-NAME)	(U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELECI		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	FUEL-OIL UNIT= 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	492409.	9619.
PEAK DEMAND (UNIT/HR)	1462.	37.
TOTAL COST (\$)	47932.06	5675.37
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443235.	7702.
PEAK DEMAND (UNIT/HR)	1462.	41.
TOTAL COST (\$)	44396.45	4543.95
MAR		
ENERGY CONSUMPTION (UNIT/MO)	507936.	5389.
PEAK DEMAND (UNIT/HR)	1460.	24.
TOTAL COST (\$)	49035.91	3179.24
APR		
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667.
PEAK DEMAND (UNIT/HR)	1450.	19.
TOTAL COST (\$)	46338.28	983.57
MAY		
ENERGY CONSUMPTION (UNIT/MO)	569592.	209.
PEAK DEMAND (UNIT/HR)	1922.	4.
TOTAL COST (\$)	57425.30	123.51
JUN		
ENERGY CONSUMPTION (UNIT/MO)	700162.	0.
PEAK DEMAND (UNIT/HR)	1992.	0.
TOTAL COST (\$)	72601.06	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	706795.	0.
PEAK DEMAND (UNIT/HR)	1987.	0.
TOTAL COST (\$)	72757.86	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	736074.	0.
PEAK DEMAND (UNIT/HR)	1989.	0.
TOTAL COST (\$)	75352.55	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	661846.	0.
PEAK DEMAND (UNIT/HR)	1929.	0.
TOTAL COST (\$)	68981.09	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	540036.	323.
PEAK DEMAND (UNIT/HR)	1831.	9.
TOTAL COST (\$)	54517.98	190.39
NOV		
ENERGY CONSUMPTION (UNIT/MO)	465371.	3663.
PEAK DEMAND (UNIT/HR)	1459.	23.
TOTAL COST (\$)	45967.96	2160.91
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491305.	8407.
PEAK DEMAND (UNIT/HR)	1462.	28.
TOTAL COST (\$)	47852.72	4960.15

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6786406.	36978.
PEAK DEMAND (UNIT/HR)	1992.	41.
TOTAL COST (\$)	683159.25	21817.08

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/12/1996 10:22:54 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	4OPPKKWH	744	492409.	35404.21	1462.	1462.	0.00	
	BONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	47932.06
FEB	4OPPKKWH	672	443235.	31868.59	1462.	1462.	0.00	
	BONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	44396.45
MAR	4OPPKKWH	744	507936.	36520.62	1460.	1460.	0.00	
	BONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	49035.91
APR	4OPPKKWH	720	471645.	33911.25	1450.	1450.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	46338.28
MAY	4OPPKKWH	744	569592.	40953.69	1922.	1922.	0.00	
	BONPKDMHTG	252	337720.	0.00	1922.	1922.	16471.62	57425.30
JUN	4OPPKKWH	456	286503.	20599.54	1091.	1091.	0.00	
	BONPKDMCL	264	413660.	0.00	1992.	1992.	18867.39	
	BONPKKWH	264	413660.	33134.14	1992.	1992.	0.00	72601.06
JUL	4OPPKKWH	504	325586.	23409.62	1076.	1076.	0.00	
	BONPKDMCL	240	381209.	0.00	1987.	1987.	18813.38	
	BONPKKWH	240	381209.	30534.86	1987.	1987.	0.00	72757.86
AUG	4OPPKKWH	468	297774.	21409.93	1099.	1099.	0.00	
	BONPKDMCL	276	438300.	0.00	1989.	1989.	18834.75	
	BONPKKWH	276	438300.	35107.86	1989.	1989.	0.00	75352.55
SEP	4OPPKKWH	468	280945.	20199.94	1069.	1069.	0.00	
	BONPKDMCL	252	380901.	0.00	1929.	1929.	18270.95	
	BONPKKWH	252	380901.	30510.20	1929.	1929.	0.00	68981.09
OCT	4OPPKKWH	744	540036.	38828.57	1831.	1831.	0.00	
	BONPKDMHTG	240	310258.	0.00	1831.	1831.	15689.41	54517.98
NOV	4OPPKKWH	720	465371.	33460.16	1459.	1459.	0.00	
	BONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	45967.96

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/12/1996 10:22:54 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	4OPPKWH	744	491305.	35324.86	1462.	1462.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
								47852.72
TOTAL			6786406.	501178.03			181981.19	683159.25

BUILDING 2700 - CUESAWEOM DESIGN (ESTIMATED HEATING & COOLING LOADS)

(3) UNITS TOGETHER FIT A NOMINAL SIZE OF
~50,000 CFM w/ 20% OUTSIDE AIR
- ROOM @ 68°F (55% RH) @ 93°DB 72°WB

$$Q = 1.5 (50,000) (27.3 - 21.0) = 1,4175 \text{ mmBtu/hr}$$

$$Q = 118.1 \text{ TONS} \rightarrow 155 \text{ HP} \text{ CHILLER}$$

(~1 kW/ton) (3) 40 (1) 35

HEATING

$$Q(\text{cooling}) = 1.1 (50,000) (68 - 51)$$

$$= 935,000 \text{ Btu/hr} \approx 935 \text{ MBtu/hr}$$

$$Q(\text{cooling}) = 1.1 (50,000) (68 - 47)$$

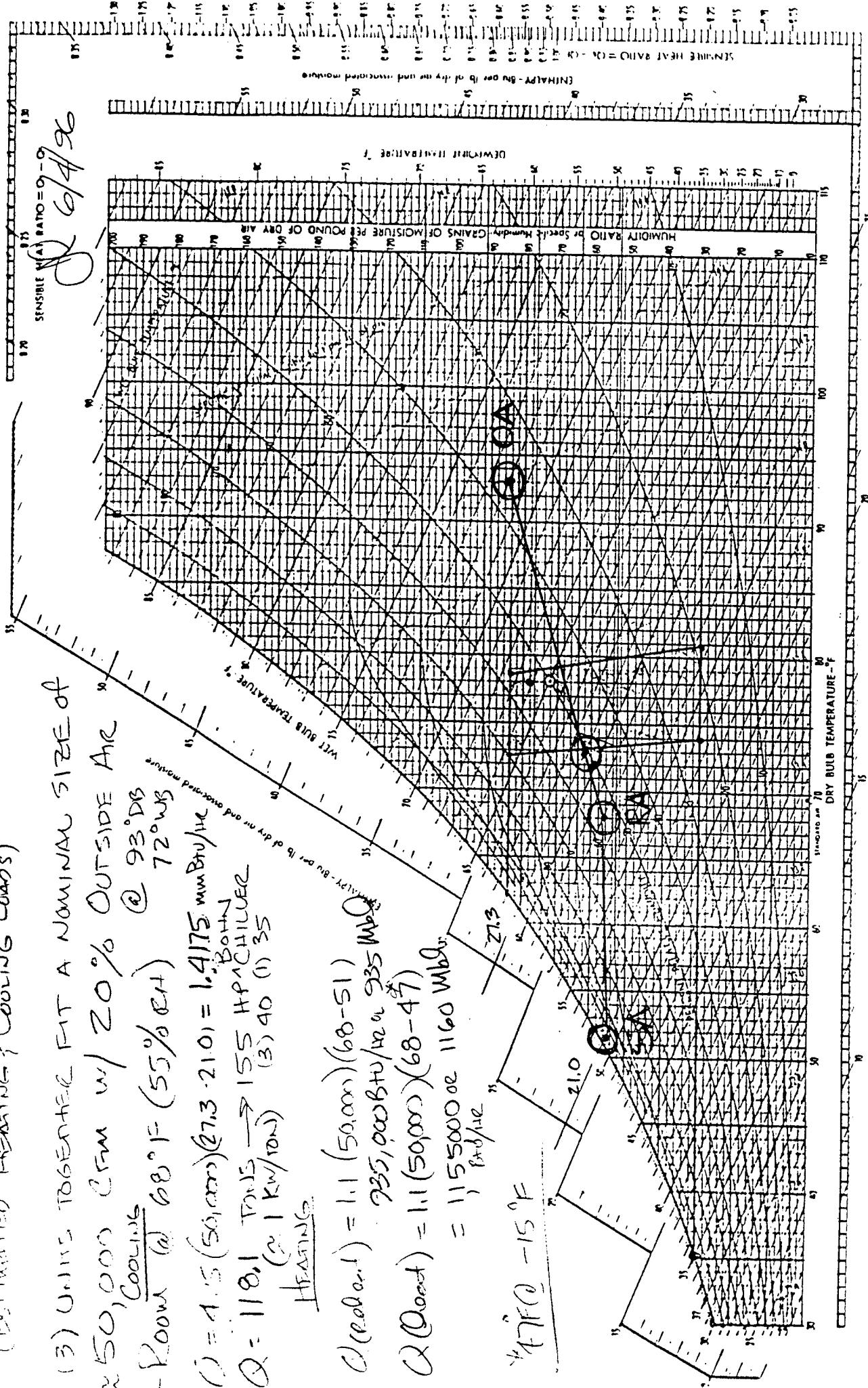
$$= 1,155,000 \text{ or } 1160 \text{ MBtu/hr}$$

47°F @ -15°F

PSYCHROMETRIC CHART
Q 196, The 1966 (Standard 10) Edition, with Corrections
Revised to Reflect 1987 Changes of Moisture

CRANE

Fort Monmouth BEAP
STUDY - ENRCH # 4130.05



INPUT LOADS ..

\$-----\$
\$ E Z - D O E L O A D S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
 LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
 LINE-3 * READING, PA 19603 *

 LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
 LINE-5 *FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24* ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
LOADS-REPORT SUMMARY=(LS-F) ..
BUILDING-LOCATION ALTITUDE = 15.
 X-REF = 0.0
 Y-REF = 0.0 ..
RUN-PERIOD JAN 1 1994 THRU DEC 31 1994 ..

\$ SCHEDULES

D24FULON =DAY-SCHEDULE (1,24) (1.) ..

DWKFULON12 =DAY-SCHEDULE (1,6) (0.)
 (7,18) (1.)
 (19,24) (0.) ..

D24FULOFF =DAY-SCHEDULE (1,24) (0.) ..

DOCCUP01 =DAY-SCHEDULE (1,6) (0.07)
 (7,8) (0.7,0.9)
 (9,14) (1.)
 (15,18) (0.9,0.7,0.25,0.15)
 (19,24) (0.07) ..

d24occofhr =DAY-SCHEDULE (1,24) (0.07) ..

DWKLITE1 =DAY-SCHEDULE (1,6) (0.1)
 (7,8) (0.5,0.9)
 (9,14) (1.)
 (15,18) (0.9,0.7,0.25,0.15)
 (19,24) (0.1) ..

DNOTLITE1 =DAY-SCHEDULE (1,24) (0.1) ..

DINFILWIN1 =DAY-SCHEDULE (1,24) (0.8) ..

DINFILSUM1 =DAY-SCHEDULE (1,24) (0.8) ..

DEQPAWKDAY =DAY-SCHEDULE (1,7) (0.15)
 (8,19) (0.5)
 (20,24) (0.15) ..

DEQPAWKEND =DAY-SCHEDULE (1,24) (0.15) ..

W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..

WOCC01 =WEEK-SCHEDULE (WD) DOCCUP01
(WEH) d24occofhr ..

WLITE1 =WEEK-SCHEDULE (WD) DWKLITE1
(WEH) DNOTLITE1 ..

WINFILWIN1 =WEEK-SCHEDULE (ALL) DINFILWIN1 ..

WINFILSUM1 =WEEK-SCHEDULE (ALL) DINFILSUM1 ..

WEQUIPSCHA =WEEK-SCHEDULE (WD) DEQPAWKDAY
(WEH) DEQPAWKEND ..

\$ 24 HR FULON 7D/WK WK1

Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ Y LOADS OCCUP SCH 01

YOCC01 =SCHEDULE THRU DEC 31 WOCC01 ..

\$ YR LIGHTING SCH 1/.1

YLITE1 =SCHEDULE THRU DEC 31 WLITE1 ..

\$ YR INFIL SCHD 1

YINFIL1 =SCHEDULE THRU MAY 15 WINFILWIN1
THRU OCT 15 WINFILSUM1
THRU DEC 31 WINFILWIN1 ..

\$ YR SCH EQUIP SCHA 50/15

YEQUIPSCHA =SCHEDULE THRU DEC 31 WEQUIPSCHA ..

\$ CONSTRUCTION TYPES

\$ ROOF CON1 MAIN ROOF

ROOFCON1 =CONSTRUCTION U-VALUE = 0.100 ..

\$ EXTERIOR WAL1 TYP

EXWAL1 =CONSTRUCTION U-VALUE = 0.080 ..

\$ INTERIOR WALL 1 TYP

INTWAL1 =CONSTRUCTION U-VALUE = 0.480
ABSORPTANCE = 0.000 ..

\$ EXTERIOR DOOR TYP 01 U=.4

EXTDR01 =CONSTRUCTION U-VALUE = 0.400 ..

\$ UNDERGRND WALL 1

UWAL1 =CONSTRUCTION U-VALUE = 0.100
ABSORPTANCE = 0.500 ..

GLTYP1 =GLASS-TYPE SHADING-COEF = 0.560
 PANES = 1
 GLASS-CONDUCTANCE = 0.520 ..

\$ SPACE DESCRIPTION

OSTMUH =SPACE AREA = 23230.0 VOLUME = 185840.0
 TEMPERATURE = (68.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 1.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA INF-METHOD = AIR-CHANGE
 AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 14.0 WIDTH = 105.0 CONS = EXWAL1
 AZIMUTH = 90 ..

E-W HEIGHT = 14.0 WIDTH = 100.0 CONS = EXWAL1
 AZIMUTH = 270 ..

U-W HEIGHT = 14.0 WIDTH = 344.0 CONS = UWAL1 ..

U-W HEIGHT = 232.3 WIDTH = 100.0 CONS = UWAL1 ..

1STMUH =SPACE AREA = 17842.0 VOLUME = 298854.0
 TEMPERATURE = (68.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 1.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA INF-METHOD = AIR-CHANGE
 AIR-CHANGES/HR = 1.0 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 22.3 WIDTH = 10.0 CONS = EXWAL1
 AZIMUTH = 0 ..

E-W HEIGHT = 22.3 WIDTH = 167.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 135.3 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1
 AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 30.0 CONS = EXWAL1
 AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 16.2 G-T = GLTYP1 ..

1STMDX =SPACE AREA = 15561.0 VOLUME = 550167.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0

PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 1.0
INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 24.0 CONS = EXWAL1
AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 19.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 364.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 295.0 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 20.0 CONS = EXWAL1
AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 16.2 G-T = GLTYP1 ..

E-W HEIGHT = 37.6 WIDTH = 112.0 CONS = EXWAL1
AZIMUTH = 90 ..

E-W HEIGHT = 37.6 WIDTH = 90.0 CONS = EXWAL1
AZIMUTH = 135 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01 ..

E-W HEIGHT = 37.6 WIDTH = 112.0 CONS = EXWAL1
AZIMUTH = 270 ..

DOOR HEIGHT = 7.0 WIDTH = 5.0 CONS = EXTDR01 ..

ROOF HEIGHT = 110.0 WIDTH = 70.0 CONS = ROOFCON1
TILT = 0 ..

2STMDX =SPACE AREA = 17634.0 VOLUME = 171932.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 15.0
INF-METHOD = NONE ..

3STMDX =SPACE AREA = 11911.0 VOLUME = 115179.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
INF-METHOD = NONE ..

4STMDXCLNR =SPACE AREA = 6966.0 VOLUME = 67361.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED

PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 15.0
INF-METHOD = NONE ..

ROOF HEIGHT = 162.0 WIDTH = 43.0 CONS = ROOFCON1
TILT = 0 ..

4STMOFFCLB =SPACE AREA = 5117.0 VOLUME = 49481.4
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 5.0
INF-METHOD = NONE ..

ROOF HEIGHT = 119.0 WIDTH = 43.0 CONS = ROOFCON1
TILT = 0 ..

0LSTMDX =SPACE AREA = 20043.0 VOLUME = 160344.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 2.0
INF-METHOD = NONE ..

E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..

WINDOW HEIGHT = 2.7 WIDTH = 162.0 G-T = GLTYP1 ..

E-W HEIGHT = 14.0 WIDTH = 132.0 CONS = EXWAL1
AZIMUTH = 90 ..

E-W HEIGHT = 14.0 WIDTH = 96.0 CONS = EXWAL1
AZIMUTH = 180 ..

WINDOW HEIGHT = 2.7 WIDTH = 68.0 G-T = GLTYP1 ..

E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..

WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..

E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..

WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
 ROOF HEIGHT = 200.0 WIDTH = 60.5 CONS = ROOFCON1
 TILT = 0 ..
 E-W HEIGHT = 14.0 WIDTH = 84.0 CONS = EXWAL1
 AZIMUTH = 90 ..
 WINDOW HEIGHT = 2.7 WIDTH = 68.0 G-T = GLTYP1 ..
 E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
 AZIMUTH = 45 ..
 WINDOW HEIGHT = 2.7 WIDTH = 226.8 G-T = GLTYP1 ..
 WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
 E-W HEIGHT = 14.0 WIDTH = 200.0 CONS = EXWAL1
 AZIMUTH = 135 ..
 WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
 WINDOW HEIGHT = 2.7 WIDTH = 162.0 G-T = GLTYP1 ..
 U-W HEIGHT = 14.0 WIDTH = 73.0 CONS = UWAL1 ..
 U-W HEIGHT = 399.6 WIDTH = 100.0 CONS = UWAL1 ..
 E-W HEIGHT = 14.0 WIDTH = 60.0 CONS = EXWAL1
 AZIMUTH = 45 ..
 WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
 E-W HEIGHT = 14.0 WIDTH = 132.0 CONS = EXWAL1
 AZIMUTH = 90 ..
 WINDOW HEIGHT = 2.7 WIDTH = 106.9 G-T = GLTYP1 ..
 ROOF HEIGHT = 399.6 WIDTH = 100.0 CONS = ROOFCON1
 TILT = 0 ..
 U-W HEIGHT = 14.0 WIDTH = 73.0 CONS = UWAL1 ..
 U-W HEIGHT = 399.6 WIDTH = 100.0 CONS = UWAL1 ..

END ..
 COMPUTE LOADS ..

INPUT SYSTEMS ..

\$-----\$
 \$ E Z - D O E S Y S T E M S I N P U T \$
 \$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTech ENGINEERING *
 LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*

LINE-3 * READING, PA 19603 *

LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *

LINE-5 *FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24* ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
SYSTEMS-REPORT VERIFICATION=(SV-A)
 SUMMARY=(SS-A,SS-B,SS-D)
 REPORT-FREQUENCY = MONTHLY ..

\$ SCHEDULES

DS24ON1 =DAY-SCHEDULE (1,24) (1.) ..
DS24OFF0 =DAY-SCHEDULE (1,24) (0.) ..
DLOTMPNOHT =DAY-SCHEDULE (1,24) (0.) ..
DHITMPNOCL =DAY-SCHEDULE (1,24) (130.) ..
DSHTSET1 =DAY-SCHEDULE (1,24) (72.) ..
DSCLGSET1 =DAY-SCHEDULE (1,24) (75.) ..
D4CLNRMT68 =DAY-SCHEDULE (1,24) (68.) ..
OFFPK_D =DAY-SCHEDULE (1,7) (1.)
 (8,19) (0.)
 (20,24) (1.) ..
ONPK_D =DAY-SCHEDULE (1,7) (0.)
 (8,19) (1.)
 (20,24) (0.) ..
OFFPK_END =DAY-SCHEDULE (1,24) (1.) ..

W24FULON =WEEK-SCHEDULE (ALL) DS24ON1 ..
WHTSET1 =WEEK-SCHEDULE (ALL) DSHTSET1 ..
WCLSET1 =WEEK-SCHEDULE (ALL) DSCLGSET1 ..
WLOTMPNOHT =WEEK-SCHEDULE (ALL) DLOTMPNOHT ..
WHITMPNOCL =WEEK-SCHEDULE (ALL) DHITMPNOCL ..
W24FULOFF =WEEK-SCHEDULE (ALL) DS24OFF0 ..
W4CLNRMT68 =WEEK-SCHEDULE (ALL) D4CLNRMT68 ..
OFFPK_W =WEEK-SCHEDULE (WD) OFFPK_D
 (WEH) OFFPK_END ..
ONPK_W =WEEK-SCHEDULE (WD) ONPK_D
 (WEH) DS24OFF0 ..

\$ YR SCHD FULON 24HRS 7D
YSON247D =SCHEDULE THRU DEC 31 W24FULON ..

\$ YR SCHD HEATING SEAS 1
YSHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON
 THRU OCT 15 W24FULOFF
 THRU DEC 31 W24FULON ..

\$ YR SCH COOL SEASON 1
YSCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOFF
 THRU OCT 15 W24FULON
 THRU DEC 31 W24FULOFF ..

\$ YRSCH HTSET1 72 /NON0
YHTSET1 =SCHEDULE THRU MAY 15 WHTSET1
THRU OCT 15 WHTSET1
THRU DEC 31 WHTSET1 ..

\$ YRSCH COLSET 72/NON 130
YCLSET1 =SCHEDULE THRU MAY 15 WCLSET1
THRU OCT 15 WCLSET1
THRU DEC 31 WCLSET1 ..

\$ YR SCHD 4THCLNRM T=68
Y4CLNRMT68 =SCHEDULE THRU DEC 31 W4CLNRMT68 ..

OFFPK_YR =SCHEDULE THRU DEC 31 OFFPK_W ..

ONPK_YR =SCHEDULE THRU DEC 31 ONPK_W ..

\$ ZONE DESCRIPTION

0STMUH	=ZONE	DESIGN-HEAT-T = 68.0 DESIGN-COOL-T = 90.0 HEAT-TEMP-SCH = Y4CLNRMT68 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ..
1STMUH	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 90.0 HEAT-TEMP-SCH = YHTSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ..
1STMDX	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ..
2STMDX	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ..
3STMDX	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL SIZING-OPTION = FROM-LOADS ..
4STMDXCLNR	=ZONE	DESIGN-HEAT-T = 68.0 DESIGN-COOL-T = 68.0 HEAT-TEMP-SCH = Y4CLNRMT68 COOL-TEMP-SCH = Y4CLNRMT68 ZONE-TYPE = CONDITIONED THERMOSTAT-TYPE = PROPORTIONAL ASSIGNED-CFM = 50000. OUTSIDE-AIR-CFM = 10000. SIZING-OPTION = FROM-LOADS HEATING-CAPACITY = -1000000.0 ..
4STMOFFCLB	=ZONE	DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0 HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1 ZONE-TYPE = CONDITIONED

THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

0LSTMDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -240750.
SIZING-OPTION = FROM-LOADS ..

\$ SYSTEM DESCRIPTION

0SSTMUH =SYSTEM SYSTEM-TYPE = UHT
MAX-SUPPLY-T = 100.0 HEATING-SCHEDULE = Y4CLNRMT68
FAN-SCHEDULE = YSHTSEAS1 SUPPLY-DELTA-T = 0.18
SUPPLY-KW = 0.000059
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY
ZONE-NAMES = (0SSTMUH) ..

0SSTMDX =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MIN-OUTSIDE-AIR = 0.2 MAX-OA-FRACTION = 0.2
FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (0LSTMDX) ..

1SSTMUH =SYSTEM SYSTEM-TYPE = UHT
MAX-SUPPLY-T = 120.0 HEATING-SCHEDULE = YSON247D
FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 0.18
SUPPLY-KW = 0.000059
NIGHT-CYCLE-CTRL = CYCLE-ON-ANY
ZONE-NAMES = (1SSTMUH) ..

1SSTMDX =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MIN-OUTSIDE-AIR = 0.15 MAX-OA-FRACTION = 0.15
FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (1STMDX) ..

2SSTMDX =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MIN-OUTSIDE-AIR = 0.15 MAX-OA-FRACTION = 0.15
FAN-SCHEDULE = YSON247D SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF

NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (2STMDX) ..

3SSTMDX =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
PREHEAT-T = 0.0 ECONO-LIMIT-T = 55.0
OA-CONTROL = FIXED MIN-OUTSIDE-AIR = 0.15
MAX-OA-FRACTION = 0.15 FAN-SCHEDULE = YSON247D
SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (3STMDX) ..

4SSTMDXCLN =SYSTEM SYSTEM-TYPE = RHFS
MAX-SUPPLY-T = 70.0 MIN-SUPPLY-T = 50.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 50.0
PREHEAT-T = 0.0 MAX-HUMIDITY = 55.0
ECONO-LIMIT-T = 55.0 OA-CONTROL = FIXED
SUPPLY-CFM = 50000. MIN-OUTSIDE-AIR = 0.2
MAX-OA-FRACTION = 0.2 FAN-SCHEDULE = YSON247D
SUPPLY-DELTA-T = 3.1 SUPPLY-KW = 0.00101
NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
REHEAT-DELTA-T = 16. SIZING-OPTION = COINCIDENT
RETURN-AIR-PATH = DIRECT
ZONE-NAMES = (4STMDXCLNR) ..

4SSTMDXOFC =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 120.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSON247D
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
OA-CONTROL = FIXED MIN-OUTSIDE-AIR = 0.15
MAX-OA-FRACTION = 0.15 FAN-SCHEDULE = YSON247D
SUPPLY-DELTA-T = 2.42 SUPPLY-KW = 0.000783
NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
MIN-CFM-RATIO = 1.0 PREHEAT-SOURCE = HOT-WATER
ZONE-NAMES = (4STMOFFCLB) ..

\$ HOURLY REPORT DESCRIPTION

S_1 =REPORT-BLOCK VARIABLE-TYPE = 0SSTMDX
VARIABLE-LIST = (33) ..
S_2 =REPORT-BLOCK VARIABLE-TYPE = 1SSTMDX
VARIABLE-LIST = (33) ..
S_3 =REPORT-BLOCK VARIABLE-TYPE = 2SSTMDX
VARIABLE-LIST = (33) ..
S_4 =REPORT-BLOCK VARIABLE-TYPE = 3SSTMDX
VARIABLE-LIST = (33) ..
S_5 =REPORT-BLOCK VARIABLE-TYPE = 4SSTMDXCLN
VARIABLE-LIST = (33) ..
SR_1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK_YR
REPORT-BLOCK = (S_1,S_2,S_3,S_4,S_5)

..
END ..
COMPUTE SYSTEMS ..

INPUT PLANT ..

\$-----\$
\$ E Z - D O E P L A N T S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
 LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
 LINE-3 * READING, PA 19603 *

 LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
 LINE-5 *FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24* ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
PLANT-REPORT VERIFICATION=(PV-A)
 SUMMARY=(PS-D,PS-H,BEPS)
 REPORT-FREQUENCY = MONTHLY ..

\$ SCHEDULES

D24FULON =DAY-SCHEDULE (1,24) (1.) ..
D24FULOF =DAY-SCHEDULE (1,24) (0.) ..

OFFPK_PD =DAY-SCHEDULE (1,7) (1.)
 (8,19) (0.)
 (20,24) (1.) ..

ONPK_PD =DAY-SCHEDULE (1,7) (0.)
 (8,19) (1.)
 (20,24) (0.) ..

OFFPK_PEND =DAY-SCHEDULE (1,24) (1.) ..

W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..
W24FULOF7D =WEEK-SCHEDULE (ALL) D24FULOF ..

OFFPK_PW =WEEK-SCHEDULE (WD) OFFPK_PD
 (WEH) OFFPK_PEND ..

ONPK_PW =WEEK-SCHEDULE (WD) ONPK_PD
 (WEH) D24FULOF ..

\$ YRSCH FUL ON 24HR/7D
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ YRSCH HEATING SEAS1
YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
 THRU OCT 15 W24FULOF7D
 THRU DEC 31 W24FULON7D ..

\$ YRSCH COOL SEAS1
YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D

THRU OCT 15 W24FULON7D
THRU DEC 31 W24FULOF7D ..

OFFPK_PYR =SCHEDULE THRU DEC 31 OFFPK_PW ..

ONPK_PYR =SCHEDULE THRU DEC 31 ONPK_PW ..

\$ EQUIPMENT DESCRIPTION

PLSTMBLR =PLANT-EQUIPMENT TYPE = STM-BOILER
SIZE = -999. ..

PLHRCCH1 =PLANT-EQUIPMENT TYPE = HERM-REC-CHLR
SIZE = -999. ..

PLDHW =PLANT-EQUIPMENT TYPE = DHW-HEATER
SIZE = -999. ..

PLANT-PARAMETERS BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2
TWR-WTR-SET-POINT = 85. TWR-CELL-MAX-GPM = 1.0
TWR-FAN-OFF-CFM = 0.1 CHILLER-CONTROL = STANDBY
HERM-REC-COND-TYPE = AIR HERM-REC-COND-PWR = 0.15
CHILL-WTR-T = 55. CCIRC-HEAD = 100.0
CCIRC-DESIGN-T-DROP = 5.0 HCIRC-HEAD = 90.0
HCIRC-DESIGN-T-DROP = 25.0 ..

PART-LOAD-RATIO TYPE = HERM-REC-CHLR
MIN-RATIO = 0.2500 MAX-RATIO = 1.0000
OPERATING-RATIO = 1.0000 ELEC-INPUT-RATIO = 0.1600 ..

ENERGY-RESOURCE RESOURCE = FUEL-OIL ..
ENERGY-RESOURCE RESOURCE = ELECTRICITY ..
ENERGY-RESOURCE RESOURCE = NATURAL-GAS ..

\$ HOURLY REPORT DESCRIPTION

P_1 =REPORT-BLOCK VARIABLE-TYPE = HERM-REC-CHLR
VARIABLE-LIST = (1,3,18) ..
P_2 =REPORT-BLOCK VARIABLE-TYPE = STM-BOILER
VARIABLE-LIST = (1,3) ..
PR_1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK_PYR
REPORT-BLOCK = (P_1,P_2)

..
END ..
COMPUTE PLANT ..
STOP ..

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- NEWARK, NJ

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-83.862	-188.593	0.000	-212.447	-217.365	-82.468	36.261	14.151	85.750	36.517	0.000	-612.056
	SEN CL	-6.310	-38.603	0.000	0.000	-0.119	-1.870	0.652	9.539	168.409	351.052	0.000	482.750
	LAT CL					0.000			7.780		0.000	0.000	7.780
FEB	HEATING	-68.621	-156.563	0.000	-216.734	-189.372	-70.823	42.070	12.426	74.585	32.072	0.000	-540.961
	SEN CL	-7.608	-32.893	0.000	0.000	-0.091	-2.275	0.972	9.050	155.865	318.863	0.000	441.884
	LAT CL					0.000			7.404		0.000	0.000	7.404
MAR	HEATING	-57.582	-132.071	0.000	-239.948	-174.478	-63.959	52.415	13.678	80.537	33.590	0.000	-487.820
	SEN CL	-9.702	-31.370	0.000	-2.315	-1.199	-3.488	3.867	11.828	191.225	370.952	0.000	529.798
	LAT CL					0.168			9.718		0.000	0.000	9.886
APR	HEATING	-30.976	-72.496	0.000	-198.498	-80.367	-37.630	43.543	9.593	57.298	25.313	0.000	-284.222
	SEN CL	-6.847	-12.841	0.000	-23.319	-0.521	-5.124	16.926	14.038	195.742	356.615	0.000	534.669
	LAT CL					2.284			11.522		0.000	0.000	13.807
MAY	HEATING	-16.076	-40.819	0.000	-126.276	-40.044	-21.455	32.337	6.201	38.238	18.118	0.000	-149.777
	SEN CL	-1.600	9.167	0.000	-50.460	12.393	-4.759	37.771	17.499	216.032	369.560	0.000	605.604
	LAT CL					12.124			14.406		0.000	0.000	26.530
JUN	HEATING	-3.416	-11.764	0.000	-54.526	-3.040	-6.449	13.978	1.972	14.254	8.914	0.000	-40.078
	SEN CL	7.597	38.721	0.000	-65.841	28.412	-1.113	50.550	22.484	246.556	380.475	0.000	707.840
	LAT CL					40.982			18.373		0.000	0.000	59.355
JUL	HEATING	-1.117	-5.875	0.000	-22.761	-0.707	-3.078	7.168	0.844	6.770	5.469	0.000	-13.288
	SEN CL	12.771	51.167	0.000	-56.196	39.412	1.431	59.045	22.069	240.206	375.222	0.000	745.127
	LAT CL					59.063			17.749		0.000	0.000	76.812
AUG	HEATING	-2.995	-10.395	0.000	-14.262	-1.734	-4.828	6.946	0.778	6.588	5.698	0.000	-14.203
	SEN CL	9.012	38.144	0.000	-35.886	29.028	-0.898	56.088	24.680	264.587	398.260	0.000	783.014
	LAT CL					59.740			19.868		0.000	0.000	79.608
SEP	HEATING	-7.149	-20.852	0.000	-18.937	-9.052	-9.301	11.945	1.933	13.893	8.943	0.000	-28.577
	SEN CL	-1.788	6.271	0.000	-27.144	7.229	-7.512	45.710	21.644	238.465	372.306	0.000	655.179
	LAT CL					38.489			17.550		0.000	0.000	56.038
OCT	HEATING	-24.907	-60.731	0.000	-50.097	-45.698	-27.409	26.462	5.612	37.082	19.063	0.000	-120.623
	SEN CL	-7.365	-18.425	0.000	-20.823	-5.813	-9.031	25.884	17.247	209.216	360.954	0.000	551.844
	LAT CL					5.217			14.410		0.000	0.000	19.627
NOV	HEATING	-47.953	-113.060	0.000	-103.641	-108.396	-50.682	30.095	10.047	62.190	28.939	0.000	-292.463
	SEN CL	-8.103	-29.199	0.000	-7.730	-1.387	-3.895	5.051	12.646	181.670	344.124	0.000	493.178
	LAT CL					5.465			10.549		0.000	0.000	16.014
DEC	HEATING	-73.392	-167.684	0.000	-164.480	-204.012	-74.067	31.808	13.554	81.773	34.898	0.000	-521.602
	SEN CL	-7.690	-37.184	0.000	-1.341	-0.627	-2.440	1.479	10.246	173.744	354.021	0.000	490.210
	LAT CL					0.000			8.378		0.000	0.000	8.378
HEATING		-418.048	-980.901	0.000	-1422.580	-1074.266	-452.151	335.029	90.788	558.953	257.531	0.000	-3105.646

TOT	SEN CL	-27.633	-57.046	0.000	-291.060	106.717	-40.973	303.995	192.964	2481.692	4352.166	0.000	7020.822
	LAT CL					223.532			157.675		0.000	0.000	381.207

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS OSSTMUH WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE																					
NAME		MULTIPLIER																					
OSSTMUH		1.000																					
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING									
FAN		ELEC	DELTA-T	FAN		ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR		EIR									
(CFM)		(KW)	(F)	(CFM)		(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)										
13960.		0.000	0.2	0.		0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00										
ZONE		SUPPLY		EXHAUST		FAN		MINIMUM		OUTSIDE		COOLING		EXTRACTION		HEATING		ADDITION					
NAME		FLOW		FLOW		(KW)		FLOW		AIR		CAPACITY		SENSIBLE		RATE		CAPACITY		RATE			
								RATIO		FLOW		(KBTU/HR)		(SHR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		MULTIPLIER	
OSTMUH		13960.		0.		0.824		1.000		0.		0.00		0.00		0.00		-480.58		-482.35		1.0	

SYSTEM	ALTITUDE
NAME	MULTIPLIER

SUPPLY			RETURN			OUTSIDE		COOLING		HEATING	
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	COOLING	HEATING
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
23580.	18.392	2.4	0.	0.000	0.0	0.200	918.407	0.682	-3287.053	0.00	0.00

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	MULTIPLIER
				FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
				RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
0LSTMDX	23580.	0.	0.000	1.000	4716.	0.00	0.00	509.33	0.00	-1463.14	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 1SSTMUH WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE																																	
NAME		MULTIPLIER																																	
1SSTMUH		1.000																																	
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING																					
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR																								
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)																								
13610.	0.000	0.2	0.	0.000	0.0	0.000	0.000	0.000	0.000	0.00	0.00																								
ZONE			SUPPLY			EXHAUST			FAN			MINIMUM			OUTSIDE			COOLING			EXTRACTION			HEATING			ADDITION								
NAME			FLOW			FLOW			(KW)			RATIO			FLOW			(KBTU/HR)			(SHR)			(KBTU/HR)			(KBTU/HR)			(KBTU/HR)			MULTIPLIER		
1STMUH			13610.			0.			0.803			1.000			0.			0.00			0.00			0.00			-698.82			-705.41			1.0		

SYSTEM	ALTITUDE
NAME	MULTIPLIER

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	MULTIPLIER
				FLOW RATIO	AIR FLOW	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	
	10240.	0.	0.000	1.000	1536.	0.00	0.00	221.18	0.00	-530.84	1.0

ENTTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 2SSTMDX WEATHER FILE- NEWARK, NJ

SYSTEM	ALTITUDE
NAME	MULTIPLIER

2SSTMDX 1.000

SUPPLY			RETURN			OUTSIDE	COOLING	HEATING		COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)

29420. 22.948 2.4 0. 0.000 0.0 0.150 1116.736 0.691 -3987.275 0.00 0.00

ZONE NAME	SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER

2STMDX 29420. 0. 0.000 1.000 4413. 0.00 0.00 635.47 0.00 -1525.13 1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 3SSTMDX WEATHER FILE- NEWARK, NJ

SYSTEM	ALTITUDE	
NAME	MULTIPLIER	
3SSTMDX	1.000	

SUPPLY			RETURN			OUTSIDE	COOLING	HEATING		COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
17170.	13.393	2.4	0.	0.000	0.0	0.150	652.451	0.690	-2327.040	0.00	0.00

ZONE	SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	(KW)	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
				RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
3STMDX	17170.	0.	0.000	1.000	2576.	0.00	0.00	370.87	0.00	-890.09	1.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 4SSTMDXCLN WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE										
NAME		MULTIPLIER										
4SSTMDXCLN		1.000										
SUPPLY			RETURN			OUTSIDE		COOLING	HEATING		COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
50000.	50.500	3.1	0.	0.000	0.0	0.200	2625.423	0.592	0.000	0.00	0.00	
						MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
ZONE	SUPPLY	EXHAUST	FAN	FLOW	AIR	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE		
NAME	FLOW	FLOW	(KW)	RATIO	FLOW	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER	
4STMDXCLNR	50000.	0.	0.000	1.000	10000.	0.00	0.00	972.00	-864.00	-108.00	1.0	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTM0BB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 4SSTMDXOFC WEATHER FILE- NEWARK, NJ

SYSTEM		ALTITUDE																					
NAME		MULTIPLIER																					
4SSTMDXOFC		1.000																					
SUPPLY			RETURN			OUTSIDE		COOLING		HEATING		COOLING		HEATING									
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR		EIR											
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)												
6640.	5.199	2.4	0.	0.000	0.0	0.150	252.823	0.690	-899.770	0.00	0.00												
ZONE		SUPPLY		EXHAUST		FAN		MINIMUM		OUTSIDE		COOLING		EXTRACTION		HEATING		ADDITION					
NAME		FLOW		FLOW		(KW)		FLOW		AIR		CAPACITY		SENSIBLE		RATE		CAPACITY		RATE			
								RATIO		FLOW		(KBTU/HR)		(SHR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		MULTIPLIER	
4STMOFFCLB		6640.		0.		0.000		1.000		996.		0.00		0.00		143.42		0.00		-344.22		1.0	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -	
MONTH	COOLING	TIME	DRY-	WET-	MAXIMUM	HEATING	TIME	DRY-	WET-	MAXIMUM	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)	
	ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP	COOLING LOAD (KBTU/HR)		OF MAX DY HR	BULB TEMP	BULB TEMP	HEATING LOAD (KBTU/HR)			
JAN	734.49866	25 14	52.F	41.F	1902.798	-1347.132	5 21	15.F	12.F	-2945.473	276815.	707.161	
FEB	689.95953	11 14	52.F	50.F	1947.922	-1197.829	20 3	10.F	7.F	-3142.490	250183.	706.495	
MAR	880.38153	15 16	70.F	61.F	2406.023	-1145.207	5 1	29.F	24.F	-2291.763	286502.	706.461	
APR	1036.69739	29 16	78.F	67.F	2896.074	-841.243	9 6	30.F	25.F	-2143.264	270995.	706.316	
MAY	1283.01001	26 16	86.F	72.F	3639.623	-669.412	21 7	46.F	44.F	-1616.674	276518.	706.014	
JUN	1616.68347	13 13	95.F	75.F	4159.959	-503.655	4 6	55.F	50.F	-1014.016	275700.	705.631	
JUL	1785.26257	29 13	88.F	73.F	3977.014	-504.090	15 6	62.F	59.F	-850.181	271573.	705.631	
AUG	1824.01367	18 16	91.F	77.F	4362.844	-504.945	22 5	58.F	57.F	-971.342	286190.	705.631	
SEP	1478.22900	20 12	80.F	75.F	3879.487	-517.335	26 6	50.F	46.F	-1149.482	270833.	705.720	
OCT	1161.73364	17 15	75.F	65.F	3083.900	-671.035	25 6	41.F	36.F	-1659.976	271631.	705.904	
NOV	932.02478	2 15	77.F	70.F	3342.014	-899.365	23 6	31.F	26.F	-1985.155	266124.	706.300	
DEC	791.00671	2 14	64.F	53.F	2238.509	-1227.427	8 4	19.F	17.F	-2322.254	276776.	706.508	

TOTAL	14213.462					-10028.692					3279762.		
MAX					4362.844					-3142.490		707.161	

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ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSSTMUH WEATHER FILE- NEWARK, NJ

- ZONE COOLING - - - ZONE HEATING - - - BASEBOARDS - - - - PRE-HEAT - - -

MONTH	ZONE COIL	MAXIMUM	ZONE COIL	MAXIMUM	BASEBOARD	MAXIMUM	PRE-HEAT	MAXIMUM
	COOLING	ZONE COIL	ZONE COIL	ZONE COIL	BASEBOARD	BASEBOARD	PRE-HEAT	PRE-HEAT
	ENERGY	LOAD	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	(MBTU)	(KBTU/HR)	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
			(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	-112.61273	-446.126	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-104.99960	-395.889	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-101.29436	-265.201	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-60.66871	-236.640	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-26.01891	-190.399	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	-0.08293	-82.929	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-11.51841	-140.334	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-46.40113	-206.371	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-95.69556	-255.627	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		-559.292		0.000		0.000	
MAX		0.000		-446.126		0.000		0.000

ENTTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSSTMDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	COOLING	ENERGY	OF	MAX	BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-424.663	19	5	14.F	12.F	-880.177	31571.	78.496
FEB	0.00000					0.000	-373.413	20	7	8.F	6.F	-957.488	28532.	78.496
MAR	0.10919	16	15	67.F	50.F	45.509	-330.252	25	6	28.F	25.F	-715.535	32565.	78.496
APR	4.85594	15	15	73.F	55.F	234.400	-195.398	9	7	30.F	25.F	-660.360	30889.	78.496
MAY	30.11234	10	15	87.F	69.F	451.981	-94.774	3	6	39.F	33.F	-471.012	31571.	78.496
JUN	92.83858	13	13	95.F	75.F	656.288	-17.941	4	6	55.F	50.F	-245.499	31386.	78.496
JUL	142.83754	12	13	87.F	71.F	624.137	-2.114	15	6	62.F	59.F	-98.983	31074.	78.496
AUG	153.36879	18	16	91.F	77.F	730.743	-5.612	22	5	58.F	57.F	-180.556	32565.	78.496
SEP	78.25856	6	14	79.F	69.F	516.576	-13.869	27	6	48.F	46.F	-259.040	30889.	78.496
OCT	16.51519	17	15	75.F	65.F	353.148	-80.379	11	6	40.F	35.F	-408.051	31074.	78.496
NOV	2.23800	2	15	77.F	70.F	262.428	-208.601	9	6	29.F	25.F	-584.202	30392.	78.496
DEC	0.07223	2	14	64.F	53.F	36.576	-353.525	8	6	19.F	17.F	-756.611	31571.	78.496

TOTAL	521.207						-2100.542						374066.	
MAX						730.743						-957.488		78.496

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSSTMDX WEATHER FILE- NEWARK, NJ

- ZONE COOLING- - - ZONE HEATING - - - BASEBOARDS - - - - PRE-HEAT - - -

MONTH	ZONE COIL	MAXIMUM	ZONE COIL	MAXIMUM	BASEBOARD	MAXIMUM	PRE-HEAT	MAXIMUM
	COOLING	ZONE COIL	ZONE COIL	ZONE COIL	HEATING	BASEBOARD	HEATING	PRE-HEAT
	ENERGY	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	(MBTU)	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
		(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-178.04318	-240.750	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-159.78296	-240.750	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-165.73660	-240.750	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	-123.67260	-240.750	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-70.97748	-240.750	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	-14.39665	-196.853	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	-1.69665	-79.436	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	-4.50082	-144.519	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	-11.11564	-207.168	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	-63.09883	-240.750	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-134.81749	-240.750	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-172.49670	-240.750	0.00000	0.000
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TOTAL	0.000		0.000		-1100.344		0.000	
MAX		0.000		0.000		-240.750		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMUH WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING	ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	0.00000					0.000	-146.391	5	20	15.F	12.F	-703.103	4569.	18.638
FEB	0.00000					0.000	-126.787	20	3	10.F	7.F	-600.042	4125.	18.276
MAR	0.00000					0.000	-115.264	4	16	29.F	27.F	-406.593	4825.	18.267
APR	0.00000					0.000	-51.534	9	4	32.F	27.F	-340.749	4415.	18.193
MAY	0.00000					0.000	-22.072	2	22	50.F	39.F	-230.073	4424.	17.991
JUN	0.00000					0.000	0.000					0.000	4501.	17.835
JUL	0.00000					0.000	0.000					0.000	4252.	17.835
AUG	0.00000					0.000	0.000					0.000	4690.	17.835
SEP	0.00000					0.000	-3.802	25	23	57.F	49.F	-90.354	4360.	17.924
OCT	0.00000					0.000	-31.424	25	6	41.F	36.F	-270.992	4288.	18.017
NOV	0.00000					0.000	-73.560	25	6	38.F	37.F	-348.284	4295.	18.213
DEC	0.00000					0.000	-138.700	6	18	31.F	26.F	-416.965	4560.	18.314

TOTAL	0.000						-709.534						53305.	
MAX						0.000						-703.103		18.638

ENTTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMUH WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - -PRE-HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	-146.39053	-703.103	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-126.78695	-600.042	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-115.26421	-406.593	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-51.53436	-340.749	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-22.07189	-230.073	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	-3.80157	-90.354	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-31.42404	-270.992	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-73.56000	-348.284	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-138.69984	-416.965	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		-709.534		0.000		0.000	
MAX		0.000		-703.103		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC- TRICAL ENERGY (KWH)	MAXIMUM
	ENERGY (MBTU)	OF	MAX	BULB	BULB	COOLING LOAD (KBTU/HR)		OF	MAX	BULB	BULB	HEATING LOAD (KBTU/HR)		ELEC LOAD (KW)
JAN	0.07713	25	14	52.F	41.F	21.796	-77.661	19	5	14.F	12.F	-216.663	16722.	46.873
FEB	0.37390	11	14	52.F	50.F	41.414	-62.654	20	7	8.F	6.F	-235.768	15114.	46.873
MAR	3.60544	16	14	67.F	50.F	112.198	-42.990	25	6	28.F	25.F	-146.981	17363.	46.873
APR	16.78626	21	14	80.F	62.F	172.141	-14.779	9	7	30.F	25.F	-128.313	16399.	46.873
MAY	40.09307	10	15	87.F	69.F	239.649	-3.600	3	6	39.F	33.F	-75.075	16722.	46.873
JUN	76.69411	13	13	95.F	75.F	294.077	-0.001	5	4	59.F	55.F	-0.412	16720.	46.873
JUL	89.18549	29	13	88.F	73.F	271.785	0.000					0.000	16401.	46.873
AUG	84.33113	18	16	91.F	77.F	289.730	-0.027	22	5	58.F	57.F	-15.679	17363.	46.873
SEP	50.85186	20	14	83.F	72.F	231.730	-0.519	27	6	48.F	46.F	-48.776	16399.	46.873
OCT	17.04516	17	15	75.F	65.F	165.225	-8.702	11	6	40.F	35.F	-104.051	16401.	46.873
NOV	7.39196	2	14	77.F	70.F	197.869	-34.639	9	6	29.F	25.F	-143.213	16079.	46.873
DEC	0.68019	2	14	64.F	53.F	83.969	-64.555	8	6	19.F	17.F	-188.395	16722.	46.873

TOTAL	387.116						-310.126						198416.	
MAX						294.077						-235.768		46.873

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SSTMDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL	MAXIMUM	ZONE COIL	MAXIMUM	BASEBOARD	MAXIMUM	PRE-HEAT	MAXIMUM
	COOLING	ZONE COIL	ZONE COIL	ZONE COIL	HEATING	BASEBOARD	COIL	PRE-HEAT
	ENERGY	COOLING	HEATING	HEATING	HEATING	HEATING	ENERGY	COIL
	(MBTU)	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
		(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SSTMDX WEATHER FILE- NEWARK, NJ

	- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
	COOLING	TIME		DRY-	WET-	MAXIMUM		HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	COOLING		ENERGY	OF	MAX	BULB	BULB	HEATING	TRICAL	ELEC
MONTH	(MBTU)	DY	HR	TEMP	TEMP	LOAD		(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)							(KBTU/HR)	(KWH)	(KW)
JAN	145.87360	25	14	52.F	41.F	578.169		-0.010	17	6	16.F	14.F	-9.415	87286.	225.654
FEB	138.91960	11	14	52.F	50.F	581.270		-1.135	20	7	8.F	6.F	-64.599	78894.	225.654
MAR	191.02383	15	16	70.F	61.F	661.116		0.000					0.000	90664.	225.654
APR	222.28549	29	15	77.F	66.F	748.915		0.000					0.000	85615.	225.654
MAY	265.31262	26	16	86.F	72.F	828.226		0.000					0.000	87286.	225.654
JUN	325.46805	13	13	95.F	75.F	878.494		0.000					0.000	87303.	225.654
JUL	339.99118	19	14	85.F	74.F	874.793		0.000					0.000	85598.	225.654
AUG	356.23941	18	16	91.F	77.F	918.542		0.000					0.000	90664.	225.654
SEP	297.17816	20	12	80.F	75.F	882.966		0.000					0.000	85615.	225.654
OCT	239.78165	17	14	74.F	65.F	728.905		0.000					0.000	85598.	225.654
NOV	195.11839	2	15	77.F	70.F	811.208		0.000					0.000	83926.	225.654
DEC	161.84395	2	14	64.F	53.F	638.487		0.000					0.000	87286.	225.654
	-----					-----		-----					-----	-----	-----
TOTAL	2879.038							-1.145						1035801.	
MAX						918.542							-64.599		225.654

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 2SSTMDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SSTMDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	COOLING	ENERGY	OF	MAX	BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	77.37622	25	14	52.F	41.F	334.590	-0.315	10	6	19.F	17.F	-20.724	48432.	132.453
FEB	74.61213	11	14	52.F	50.F	336.978	-1.440	20	7	8.F	6.F	-49.951	43777.	132.453
MAR	103.42725	16	14	67.F	50.F	379.178	0.000					0.000	50409.	132.453
APR	121.93380	29	15	77.F	66.F	434.784	0.000					0.000	47539.	132.453
MAY	146.75310	26	14	83.F	71.F	480.741	0.000					0.000	48432.	132.453
JUN	182.10710	13	13	95.F	75.F	510.773	0.000					0.000	48528.	132.453
JUL	190.13220	19	14	85.F	74.F	509.947	0.000					0.000	47444.	132.453
AUG	199.60895	18	16	91.F	77.F	524.492	0.000					0.000	50409.	132.453
SEP	165.38913	20	12	80.F	75.F	513.124	0.000					0.000	47539.	132.453
OCT	131.77885	17	14	74.F	65.F	423.871	0.000					0.000	47444.	132.453
NOV	106.03567	2	15	77.F	70.F	472.374	0.000					0.000	46551.	132.453
DEC	86.39047	2	14	64.F	53.F	370.396	0.000	26	5	27.F	26.F	-0.164	48432.	132.453

TOTAL	1585.548						-1.755						574954.	
MAX						524.492						-49.951		132.453

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 3SSTMDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL	MAXIMUM	ZONE COIL	MAXIMUM	BASEBOARD	MAXIMUM	PRE-HEAT	MAXIMUM
	COOLING	ZONE COIL	ZONE COIL	ZONE COIL	HEATING	BASEBOARD	PRE-HEAT	PRE-HEAT
	ENERGY	LOAD	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	(MBTU)	(KBTU/HR)	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
			(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXCLN WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	COOLING	ENERGY	OF	MAX	BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	500.26315	22	2	61.F	60.F	1106.007	-576.953	24	2	21.F	17.F	-872.075	67026.	137.539
FEB	464.38861	13	19	55.F	54.F	950.652	-520.138	20	7	8.F	6.F	-903.224	60563.	137.539
MAR	563.25409	15	16	70.F	61.F	1152.873	-552.842	25	5	28.F	24.F	-834.289	68474.	137.539
APR	641.08441	29	18	73.F	68.F	1367.235	-518.495	10	7	38.F	33.F	-827.410	65354.	137.539
MAY	758.34039	23	17	84.F	73.F	1540.904	-522.946	22	6	45.F	44.F	-807.529	67026.	137.539
JUN	879.61346	13	13	95.F	75.F	1624.603	-485.631	5	6	57.F	55.F	-775.239	66078.	137.539
JUL	958.69739	19	16	88.F	74.F	1588.994	-501.976	5	6	62.F	57.F	-761.236	66302.	137.539
AUG	964.41534	18	16	91.F	77.F	1707.726	-499.306	22	5	58.F	57.F	-775.107	68474.	137.539
SEP	835.92218	20	12	80.F	75.F	1630.641	-499.145	26	6	50.F	46.F	-800.906	65354.	137.539
OCT	723.15112	31	17	65.F	65.F	1287.364	-538.966	11	6	40.F	35.F	-824.686	66302.	137.539
NOV	600.18353	2	13	76.F	70.F	1444.065	-534.818	14	6	31.F	27.F	-843.073	64630.	137.539
DEC	528.75989	2	16	65.F	52.F	1004.819	-569.150	8	6	19.F	17.F	-862.770	67026.	137.539

TOTAL	8418.079						-6320.369						792596.	
MAX						1707.726						-903.224		137.539

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXCLN WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - ZONE HEATING - - - BASEBOARDS - - - - - PRE-HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	-576.95331	-872.075	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	-520.13782	-903.224	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	-552.84204	-834.289	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	-518.49457	-827.410	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	-522.94629	-807.529	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	-485.63052	-775.239	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	-501.97604	-761.236	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	-499.30630	-775.107	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	-499.14542	-800.906	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	-538.96558	-824.686	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	-534.81830	-843.073	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-569.15021	-862.770	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		-6320.369		0.000		0.000	
MAX		0.000		-903.224		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTM0BB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXOFC WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING	ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL	ELEC
	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(MBTU)	DY	HR	TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	10.90832	25	14	52.F	41.F	89.179	-8.528	17	6	16.F	14.F	-48.975	15285.	43.561
FEB	11.66591	11	14	52.F	50.F	95.229	-7.263	20	7	8.F	6.F	-63.643	13816.	43.561
MAR	18.96148	16	14	67.F	50.F	121.387	-2.564	27	5	33.F	28.F	-24.500	15919.	43.561
APR	29.75221	19	14	76.F	55.F	143.136	-0.368	10	6	36.F	31.F	-18.001	15006.	43.561
MAY	42.39846	26	14	83.F	71.F	174.839	0.000					0.000	15285.	43.561
JUN	59.96085	13	13	95.F	75.F	195.725	0.000					0.000	15323.	43.561
JUL	64.41993	29	13	88.F	73.F	188.440	0.000					0.000	14967.	43.561
AUG	66.04947	19	14	87.F	75.F	192.594	0.000					0.000	15919.	43.561
SEP	50.62909	20	12	80.F	75.F	179.669	0.000					0.000	15006.	43.561
OCT	33.46150	17	14	74.F	65.F	145.125	-0.047	11	6	40.F	35.F	-12.152	14967.	43.561
NOV	21.05668	2	14	77.F	70.F	163.038	-1.346	14	6	31.F	27.F	-26.696	14689.	43.561
DEC	13.26033	2	14	64.F	53.F	113.413	-5.802	27	6	21.F	19.F	-42.900	15285.	43.561

TOTAL	422.524						-25.917						181474.	
MAX						195.725						-63.643		43.561

ENTTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 4SSTMDXOFC WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1

FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24

WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	10303.9	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	10303.9	100.0
TOTAL LOAD ON PLANT	10303.9	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	15871.3	100.0
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	21934.1	100.0
LOAD SATISFIED	21934.1	100.0
TOTAL LOAD ON PLANT	21934.1	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	10303.9	10303.9	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21934.1	21934.1	0.000	0.000	0

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1

FTMOBB0-STM(UH&AHU W/DX) 4CLN REHT&HTON24

WEATHER FILE- NEWARK, NJ

E Q U I P M E N T	AVG	MAX	MON										
	OPER	LOAD	DAY			SIZE	OPER	SIZE	OPER	SIZE	OPER	SIZE	OPER
	RATIO	(MBTU)	HR			(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
-----	-----	-----	--	--	--	-----	-----	-----	-----	-----	-----	-----	-----
STM-BOILER	0.371	3.174	2	20	3	3.174	8760						
DHW-HEATER	0.000	0.000	0	0	0	0.000	0						
HERM-REC-CHLR	0.398	4.552	8	18	16	4.552	8760						

ENTECH ENGINEERING
READING, PA 19603
SR_1 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:14:27 SDL RUN 1
FTMOB80-STM(UH&AHU W/DX)4CLN REHT&HTON24
PAGE 1- 1

MMDDHH	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (JAN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9049.063	3929.703	11290.217	6589.162	24846.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (FEB)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8166.226	3546.317	10188.731	5946.316	22422.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.474	6267.740	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (APR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.475	6267.739	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAY)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9049.063	3929.703	11290.217	6589.161	24846.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8386.935	3642.164	10464.104	6107.028	23028.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUL)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9269.771	4025.550	11565.588	6749.873	25452.000
AV	18.392	7.987	22.948	13.393	50.500

BE:
ELECTRIC
022-250K

OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (AUG)				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 8607.644	3738.010	10739.474	6267.739	23634.000
AV 18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (SEP)				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 8607.644	3738.010	10739.475	6267.740	23634.000
AV 18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (OCT)				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 9269.771	4025.550	11565.588	6749.873	25452.000
AV 18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (NOV)				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 8828.353	3833.857	11014.846	6428.450	24240.000
AV 18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (DEC)				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 9049.062	3929.703	11290.217	6589.162	24846.000
AV 18.392	7.987	22.948	13.393	50.500
YEARLY SUMMARY				
MN 18.392	7.987	22.948	13.393	50.500
MX 18.392	7.987	22.948	13.393	50.500
SM 105498.813	45814.586	131627.406	76819.984	289668.000
AV 18.392	7.987	22.948	13.393	50.500

DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBB0-STM(UH&AHU W/DX)4CLN RENT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
STM-BOILER	10303.9	100.0
DHW-HEATER	0.0	0.0
	-----	-----
LOAD SATISFIED	10303.9	100.0
TOTAL LOAD ON PLANT	10303.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	15871.3	100.0
	-----	-----
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	21934.1	100.0
	-----	-----
LOAD SATISFIED	21934.1	100.0
TOTAL LOAD ON PLANT	21934.1	

ENTTECH ENGINEERING EZDOB - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	10303.9	10303.9	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21934.1	21934.1	0.000	0.000	0

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:14:27 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	582.98	15721.18	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4965.52	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
TOTAL	21934.39	15721.18	0.00

TOTAL SITE ENERGY	37655.27 MBTU	318.3 KBTU/SQFT-YR GROSS-AREA	318.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	81589.31 MBTU	689.7 KBTU/SQFT-YR GROSS-AREA	689.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL BR LOAD BTU/HR	STM-BOIL BR ELECTRIC USE BTU/HR
----	(1)	----	(3)	----	(18)
MONTHLY SUMMARY (JAN)					
MN	691875.	553860.	415125.	1262853.	69826.
MX	1776538.	1006540.	682813.	2976898.	69826.
SM	478364480.	377932192.	281947008.	974971008.	34354464.
AV	972286.	768155.	573063.	1981648.	69826.
MONTHLY SUMMARY (FEB)					
MN	632960.	506556.	379776.	1151333.	69826.
MX	1413205.	953701.	682813.	3173915.	69826.
SM	438156896.	346102944.	258160144.	892538304.	31002810.
AV	986840.	779511.	581442.	2010221.	69826.
MONTHLY SUMMARY (MAR)					
MN	908338.	727898.	545003.	1053380.	69826.
MX	1901428.	1024457.	682813.	2323188.	69826.
SM	517894272.	404728928.	300986720.	826835776.	32678638.
AV	1106612.	864805.	643134.	1766743.	69826.
MONTHLY SUMMARY (APR)					
MN	937265.	751183.	562359.	747265.	65759.
MX	2109139.	1059606.	682813.	2174689.	69826.
SM	629455552.	438190752.	316353888.	635568704.	32663578.
AV	1344991.	936305.	675970.	1358053.	69794.
MONTHLY SUMMARY (MAY)					
MN	1090128.	874349.	654077.	704509.	61997.
MX	2899371.	1210732.	682813.	1648098.	69826.
SM	789316544.	485240512.	335833568.	511592896.	33919784.
AV	1604302.	986261.	682589.	1039823.	68943.
MONTHLY SUMMARY (JUN)					
MN	1384177.	949434.	682813.	701395.	61723.
MX	3163240.	1274939.	682813.	1045441.	69826.
SM	927032768.	482290688.	311362752.	364100672.	30655348.
AV	2032967.	1057655.	682813.	798466.	67227.
MONTHLY SUMMARY (JUL)					
MN	1542191.	972581.	682813.	703557.	61913.
MX	3262543.	1275740.	682813.	881605.	69826.
SM	1128647808.	551956416.	344137792.	381745984.	33474764.
AV	2239381.	1095152.	682813.	757433.	66418.

HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
---- (1)	---- (3)	---- (18)	---- (1)	---- (3)
MONTHLY SUMMARY (AUG)				
MN 1432806.	956579.	682813.	655344.	57670.
MX 3592429.	1322721.	682813.	1002767.	69826.
SM 103440000.	507029920.	319556512.	360379136.	31248418.
AV 2210257.	1083397.	682813.	770041.	66770.
MONTHLY SUMMARY (SEP)				
MN 1217109.	924744.	682813.	719861.	63348.
MX 2931510.	1223276.	682813.	1180907.	69826.
SM 904879552.	484514816.	319556512.	379770752.	31949278.
AV 1933503.	1035288.	682813.	811476.	68268.
MONTHLY SUMMARY (OCT)				
MN 1043358.	836645.	626015.	745039.	65563.
MX 2352478.	1139826.	682813.	1691400.	69826.
SM 753210816.	486767168.	343803584.	521949024.	35091444.
AV 1494466.	965808.	682150.	1035613.	69626.
MONTHLY SUMMARY (NOV)				
MN 892407.	715077.	535444.	731343.	64358.
MX 2334289.	1100857.	682813.	2016580.	69826.
SM 593284160.	435893920.	319190752.	683342848.	33483558.
AV 1236009.	908112.	664981.	1423631.	69757.
MONTHLY SUMMARY (DEC)				
MN 739836.	592389.	443902.	925172.	69826.
MX 1539367.	972169.	682813.	2353679.	69826.
SM 512530048.	400700064.	298113696.	898600512.	34354464.
AV 1041728.	814431.	605922.	1826424.	69826.
YEARLY SUMMARY				
MN 632960.	506556.	379776.	655344.	57670.
MX 3592429.	1322721.	682813.	3173915.	69826.
SM 8707173376.	5401348096.	3749003264.	7431395840.	394876544.
AV 1517987.	941658.	653592.	1295571.	68842.

MMDDHH	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (JAN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (FEB)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4193.466	1821.082	5232.052	3053.513	11514.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	5076.302	2204.468	6333.536	3696.357	13938.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (APR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAY)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4855.593	2108.621	6058.165	3535.646	13332.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUL)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500

BE' EXCISE
 ON PEAK

ENTECH ENGINEERING
READING, PA 19603
SR_1
HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 7/ 2/1996 10: 7:40 SDL RUN 1
FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
PAGE 2- 1

	0SSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----	(33)	----	(33)	----	(33)
MONTHLY SUMMARY (AUG)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	5076.302	2204.468	6333.536	3696.357	13938.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (SEP)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (OCT)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (NOV)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (DEC)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
YEARLY SUMMARY					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	55618.609	24153.299	69393.523	40499.219	152712.000
AV	18.392	7.987	22.948	13.393	50.500

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 10: 7:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PIMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	10303.9	100.0
DHW-HEATER	0.0	0.0
	-----	-----
LOAD SATISFIED	10303.9	100.0
TOTAL LOAD ON PLANT	10303.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	15871.3	100.0
	-----	-----
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	21934.1	100.0
	-----	-----
LOAD SATISFIED	21934.1	100.0
TOTAL LOAD ON PLANT	21934.1	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 10: 7:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	10303.9	10303.9	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21934.1	21934.1	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 10: 7:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
STM-BOILER	0.371	3.174	2	20	3	3.174	8760							
DHW-HEATER	0.000	0.000	0	0	0	0.000	0							
HERM-REC-CHLR	0.398	4.552	8	18	16	4.552	8760							

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 10: 7:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	582.98	15721.18	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4965.52	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
	-----	-----	-----
TOTAL	21934.39	15721.18	0.00

TOTAL SITE ENERGY	37655.27 MBTU	318.3 KBTU/SQFT-YR GROSS-AREA	318.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	81589.31 MBTU	689.7 KBTU/SQFT-YR GROSS-AREA	689.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
----	(1)	----	(3)	----	(18)
----	(1)	----	(3)	----	(1)
----	(1)	----	(3)	----	(3)
MONTHLY SUMMARY (JAN)					
MN	1090060.	874295.	654036.	863170.	69826.
MX	2092040.	1051559.	682813.	2574966.	69826.
SM	396929760.	246212368.	172026960.	395541120.	17596188.
AV	1575118.	977033.	682647.	1569608.	69826.
MONTHLY SUMMARY (FEB)					
MN	1066818.	855555.	640091.	927113.	69826.
MX	2137164.	1057932.	682813.	2179558.	69826.
SM	378973952.	225648704.	155638624.	326407872.	15920361.
AV	1662167.	989687.	682626.	1431614.	69826.
MONTHLY SUMMARY (MAR)					
MN	1409930.	953220.	682813.	606995.	53416.
MX	2595265.	1132922.	682813.	2029272.	69826.
SM	503283328.	279652096.	188456384.	341751648.	19098404.
AV	1823490.	1013232.	682813.	1238231.	69197.
MONTHLY SUMMARY (APR)					
MN	1487801.	964636.	682813.	574664.	50570.
MX	3085316.	1226198.	682813.	1702598.	69826.
SM	543496640.	268037312.	172068864.	228300048.	16277278.
AV	2156733.	1063640.	682813.	905953.	64592.
MONTHLY SUMMARY (MAY)					
MN	1663845.	990265.	682813.	567689.	49957.
MX	3828865.	1365767.	682813.	1323294.	69826.
SM	634489920.	283589248.	172068864.	181199008.	15047886.
AV	2517817.	1125354.	682813.	719044.	59714.
MONTHLY SUMMARY (JUN)					
MN	2060614.	1047111.	682813.	560475.	49322.
MX	4349201.	1502434.	682813.	725163.	63814.
SM	825904000.	324826144.	180262624.	162180864.	14271916.
AV	3128424.	1230402.	682813.	614321.	54060.
MONTHLY SUMMARY (JUL)					
MN	2249004.	1077488.	682813.	559788.	49261.
MX	4166256.	1432733.	682813.	665167.	58535.
SM	797411840.	303306304.	163875104.	145724320.	12823739.
AV	3322549.	1263776.	682813.	607185.	53432.

ENTECH ENGINEERING
READING, PA 19603
PR_1 - HOURLY-REPORT

RZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 7/ 2/1996 10: 7:40 PDL RUN 1
FTMOBB0-SIM(UH&AHU W/DX)4CLN RENT&HTON24
PAGE 2- 1

	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
	---- (1)	---- (3)	---- (10)	---- (1)	---- (3)
MONTHLY SUMMARY (AUG)					
MN	2200348.	1066827.	682813.	558474.	49146.
MX	4552086.	1491854.	682813.	686967.	60453.
SM	930409472.	350816256.	188456384.	167946592.	14779300.
AV	3371049.	1271073.	682813.	608502.	53548.
MONTHLY SUMMARY (SEP)					
MN	1840372.	1015714.	682813.	551735.	48553.
MX	4068729.	1368927.	682813.	899579.	69826.
SM	709604608.	293925536.	172068864.	160190304.	14081494.
AV	2815891.	1166371.	682813.	635676.	55879.
MONTHLY SUMMARY (OCT)					
MN	1639723.	986768.	682813.	595594.	52412.
MX	3273143.	1241670.	682813.	1284848.	69826.
SM	549318592.	259346032.	163875104.	172466240.	14611193.
AV	2288828.	1080609.	682813.	718609.	60880.
MONTHLY SUMMARY (NOV)					
MN	1424527.	955364.	682813.	586544.	51616.
MX	3531256.	1284191.	682813.	1668507.	69826.
SM	474993984.	248784352.	163875104.	238648512.	16093686.
AV	1979142.	1036601.	682813.	994369.	67057.
MONTHLY SUMMARY (DEC)					
MN	1219585.	925111.	682813.	624499.	54956.
MX	2427751.	1098571.	682813.	1991260.	69826.
SM	419273440.	249506352.	172068864.	352206816.	17513208.
AV	1663784.	990105.	682813.	1397646.	69497.
YEARLY SUMMARY					
MN	1066818.	855555.	640091.	551735.	48553.
MX	4552086.	1502434.	682813.	2574966.	69826.
SM	7164089344.	3333650688.	2064741632.	2872563456.	188114656.
AV	2369077.	1102398.	682785.	949922.	62207.

INPUT LOADS ..

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$-----$
$ E Z - D O E   L O A D S   I N P U T $
$-----$

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\$ GENERAL PROJECT DATA

```

TITLE  LINE-1 *          ENTECH ENGINEERING          *
        LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
        LINE-3 *          READING,          PA          19603          *

        LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ  *
        LINE-5 *FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH * ..

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ABORT      ERRORS ..
DIAGNOSTIC WARNINGS ..
LOADS-REPORT VERIFICATION=(LV-A,LV-B)
            SUMMARY=(LS-C,LS-D,LS-F) ..
BUILDING-LOCATION ALTITUDE = 15.
            X-REF = 0.0
            Y-REF = 0.0 ..
RUN-PERIOD  JAN 1 1994 THRU DEC 31 1994 ..

```

\$ SCHEDULES

```

D24FULON    =DAY-SCHEDULE  (1,24) (1.) ..
DWKFULON12  =DAY-SCHEDULE  (1,6) (0.)
                        (7,18) (1.)
                        (19,24) (0.) ..

D24FULOFF   =DAY-SCHEDULE  (1,24) (0.) ..

DOCCUP01    =DAY-SCHEDULE  (1,6) (0.07)
                        (7,8) (0.7,0.9)
                        (9,14) (1.)
                        (15,18) (0.9,0.7,0.25,0.15)
                        (19,24) (0.07) ..

d24occofhr  =DAY-SCHEDULE  (1,24) (0.07) ..

DWKLITE1    =DAY-SCHEDULE  (1,6) (0.1)
                        (7,8) (0.5,0.9)
                        (9,14) (1.)
                        (15,18) (0.9,0.7,0.25,0.15)
                        (19,24) (0.1) ..

DNOTLITE1   =DAY-SCHEDULE  (1,24) (0.1) ..

DINFILWIN1  =DAY-SCHEDULE  (1,24) (0.8) ..

DINFILSUM1  =DAY-SCHEDULE  (1,24) (0.8) ..

DEQPAWKDAY  =DAY-SCHEDULE  (1,7) (0.15)
                        (8,19) (0.5)
                        (20,24) (0.15) ..

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DEQPAWKEND =DAY-SCHEDULE (1,24) (0.15) ..

W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..

WOCC01 =WEEK-SCHEDULE (WD) DOCCUP01
(WEH) d24occofhr ..

WLITE1 =WEEK-SCHEDULE (WD) DWKLITE1
(WEH) DNOTLITE1 ..

WINFILWIN1 =WEEK-SCHEDULE (ALL) DINFILWIN1 ..

WINFILSUM1 =WEEK-SCHEDULE (ALL) DINFILSUM1 ..

WEQUIPA =WEEK-SCHEDULE (WD) DEQPAWKDAY
(WEH) DEQPAWKEND ..

\$ 24 HR FULON 7D/WK WK1
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ Y LOADS OCCUP SCH 01
YOCC01 =SCHEDULE THRU DEC 31 WOCC01 ..

\$ YR LIGHTING SCH 1/.1
YLITE1 =SCHEDULE THRU DEC 31 WLITE1 ..

\$ YR INFIL SCHD 1
YINFIL1 =SCHEDULE THRU MAY 15 WINFILWIN1
THRU OCT 15 WINFILSUM1
THRU DEC 31 WINFILWIN1 ..

\$ YR SCHD EQUIP A .50/.15
YEQUIPSCHA =SCHEDULE THRU DEC 31 WEQUIPA ..

\$ CONSTRUCTION TYPES

\$ ROOF CON1 MAIN ROOF
ROOFCON1 =CONSTRUCTION U-VALUE = 0.100 ..

\$ EXTERIOR WAL1 TYP
EXWAL1 =CONSTRUCTION U-VALUE = 0.080 ..

\$ INTERIOR WALL 1 TYP
INTWAL1 =CONSTRUCTION U-VALUE = 0.480
ABSORPTANCE = 0.000 ..

\$ EXTERIOR DOOR TYP 01 U=.4
EXTDR01 =CONSTRUCTION U-VALUE = 0.400 ..

\$ UNDERGRND WALL 1
UWAL1 =CONSTRUCTION U-VALUE = 0.100
ABSORPTANCE = 0.500 ..

GLTYP1 =GLASS-TYPE SHADING-COEF = 0.560
PANES = 1
GLASS-CONDUCTANCE = 0.520 ..

\$ SPACE DESCRIPTION

1LDXHT =SPACE AREA = 16950.0 VOLUME = 283065.0
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 356.0 CONS = EXWAL1
AZIMUTH = 135 ..

WINDOW HEIGHT = 2.7 WIDTH = 288.4 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 266.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 215.5 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 71.0 CONS = EXWAL1
AZIMUTH = 90 ..

WINDOW HEIGHT = 2.7 WIDTH = 57.5 G-T = GLTYP1 ..

1LDXNOHT =SPACE AREA = 9601.0 VOLUME = 160336.7
TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
INF-METHOD = NONE ..

E-W HEIGHT = 22.3 WIDTH = 113.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 91.5 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 25.0 CONS = EXWAL1
AZIMUTH = 225 ..

WINDOW HEIGHT = 2.7 WIDTH = 20.3 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 42.0 CONS = EXWAL1
AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 34.0 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 10.0 CONS = EXWAL1

AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 8.1 G-T = GLTYP1 ..

2LDX =SPACE AREA = 21192.0 VOLUME = 204927.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
 INF-METHOD = NONE ..

3LDX =SPACE AREA = 14457.0 VOLUME = 139800.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 4.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
 INF-METHOD = NONE ..

4LDX =SPACE AREA = 35153.0 VOLUME = 339930.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 5.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 10.0
 INF-METHOD = NONE ..

ROOF HEIGHT = 817.5 WIDTH = 100.0 CONS = ROOFCON1
 TILT = 0 ..

1LHWONLY =SPACE AREA = 25161.0 VOLUME = 421464.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 0.7
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 22.3 WIDTH = 192.0 CONS = EXWAL1
 AZIMUTH = 45 ..

WINDOW HEIGHT = 2.7 WIDTH = 155.5 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 96.0 CONS = EXWAL1
 AZIMUTH = 315 ..

WINDOW HEIGHT = 2.7 WIDTH = 77.8 G-T = GLTYP1 ..

E-W HEIGHT = 22.3 WIDTH = 155.0 CONS = EXWAL1
 AZIMUTH = 270 ..

WINDOW HEIGHT = 2.7 WIDTH = 125.6 G-T = GLTYP1 ..
 E-W HEIGHT = 22.3 WIDTH = 103.0 CONS = EXWAL1
 AZIMUTH = 225 ..
 WINDOW HEIGHT = 2.7 WIDTH = 83.4 G-T = GLTYP1 ..
 E-W HEIGHT = 22.3 WIDTH = 60.0 CONS = EXWAL1
 AZIMUTH = 135 ..
 WINDOW HEIGHT = 2.7 WIDTH = 48.6 G-T = GLTYP1 ..
 E-W HEIGHT = 22.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 270 ..
 WINDOW HEIGHT = 2.7 WIDTH = 20.0 G-T = GLTYP1 ..
 E-W HEIGHT = 22.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 225 ..
 WINDOW HEIGHT = 2.7 WIDTH = 20.0 G-T = GLTYP1 ..

03LHWELV =SPACE AREA = 250.0 VOLUME = 4189.0
 MULTIPLIER = 4.0 TEMPERATURE = (73.)
 ZONE-TYPE = CONDITIONED PEOPLE-SCHEDULE = YOCC01
 AREA/PERSON = 294.0 PEOPLE-HG-LAT = 200.0
 PEOPLE-HG-SENS = 250.0 LIGHTING-TYPE = REC-FLUOR-RV
 LIGHTING-W/SQFT = 2.0 LIGHT-TO-SPACE = 1.0
 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 0.7
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 270 ..
 E-W HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 225 ..

4LHWELV =SPACE AREA = 250.0 VOLUME = 2438.0
 TEMPERATURE = (73.) ZONE-TYPE = CONDITIONED
 PEOPLE-SCHEDULE = YOCC01 AREA/PERSON = 294.0
 PEOPLE-HG-LAT = 200.0 PEOPLE-HG-SENS = 250.0
 LIGHTING-TYPE = REC-FLUOR-RV LIGHTING-W/SQFT = 2.0
 LIGHT-TO-SPACE = 1.0 LIGHTING-SCHEDULE = YLITE1
 EQUIP-SCHEDULE = YEQUIPSCHA EQUIPMENT-W/SQFT = 0.7
 INF-METHOD = AIR-CHANGE AIR-CHANGES/HR = 1.0
 INF-SCHEDULE = YINFIL1 ..

E-W HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 270 ..
 E-W HEIGHT = 15.3 WIDTH = 40.0 CONS = EXWAL1
 AZIMUTH = 225 ..
 ROOF HEIGHT = 25.0 WIDTH = 10.0 CONS = ROOFCON1
 TILT = 0 ..

```

TITLE      LINE-1  *                ENTECH  ENGINEERING                *
          LINE-2  *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
          LINE-3  *          READING,          PA          19603          *

          LINE-4  *4130.05 FT. MONMOUTH - MYER CENTER, NJ  *
          LINE-5  *FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH * ..

ABORT      ERRORS    ..
DIAGNOSTIC WARNINGS  ..
SYSTEMS-REPORT
            VERIFICATION=(SV-A)
            SUMMARY=(SS-A,SS-B,SS-D,SS-F,SS-K)
            REPORT-FREQUENCY = MONTHLY    ..

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\$ SCHEDULES

```

DS24ON1      =DAY-SCHEDULE  (1,24) (1.) ..
DS24OFF0     =DAY-SCHEDULE  (1,24) (0.) ..
DLOTMPNOHT   =DAY-SCHEDULE  (1,24) (55.) ..
DHITMPNOCL   =DAY-SCHEDULE  (1,24) (90.) ..
DSHTSET1     =DAY-SCHEDULE  (1,24) (72.) ..
DSCLGSET1    =DAY-SCHEDULE  (1,24) (75.) ..
DSHTSET270   =DAY-SCHEDULE  (1,24) (70.) ..
OFFPK_SD     =DAY-SCHEDULE  (1,7) (1.)
              (8,19) (0.)
              (20,24) (1.) ..
ONPK_SD      =DAY-SCHEDULE  (1,7) (0.)
              (8,19) (1.)
              (20,24) (0.) ..
OFFPK_SEND   =DAY-SCHEDULE  (1,24) (1.) ..

W24FULON     =WEEK-SCHEDULE  (ALL) DS24ON1  ..
WHTSET1      =WEEK-SCHEDULE  (ALL) DSHTSET1  ..
WCLSET1      =WEEK-SCHEDULE  (ALL) DSCLGSET1  ..
WLOTMPNOHT   =WEEK-SCHEDULE  (ALL) DLOTMPNOHT ..
WHITMPNOCL   =WEEK-SCHEDULE  (ALL) DHITMPNOCL ..
W24FULOFF    =WEEK-SCHEDULE  (ALL) DS24OFF0  ..
WSHTSET270   =WEEK-SCHEDULE  (ALL) DSHTSET270 ..
WSNOCOOL     =WEEK-SCHEDULE  (ALL) DHITMPNOCL ..
OFFPK_SW     =WEEK-SCHEDULE  (WD)  OFFPK_SD
              (WEH) OFFPK_SEND  ..
ONPK_SW      =WEEK-SCHEDULE  (WD)  ONPK_SD
              (WEH) DS24OFF0  ..

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```

$ YR SCHD FULON 24HRS 7D
YSON247D     =SCHEDULE THRU DEC 31 W24FULON  ..

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```

$ YR SCHD HEATING SEAS 1
YSHTSEAS1    =SCHEDULE THRU MAY 15 W24FULON
              THRU OCT 15 W24FULOFF
              THRU DEC 31 W24FULON  ..

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$ YR SCH COOL SEASON 1
YSCLSEAS1    =SCHEDULE THRU MAY 15 W24FULOFF
              THRU OCT 15 W24FULON
              THRU DEC 31 W24FULOFF  ..

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$ YRSCH HTSET1 72 /NON0
YHTSET1      =SCHEDULE THRU MAY 15 WHTSET1
              THRU OCT 15 WHTSET1
              THRU DEC 31 WHTSET1  ..

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$ YRSCH COLSET 72/NON 130
YCLSET1      =SCHEDULE THRU MAY 15 WCLSET1

```

THRU OCT 15 WCLSET1
THRU DEC 31 WCLSET1 ..

\$ YR SCHD 24H7D FUL OF
YS247DOF =SCHEDULE THRU DEC 31 W24FULOFF ..

\$ YRSCH HTSET2-70 /NONO
YHTSET2-70 =SCHEDULE THRU MAY 15 WSHTSET270
THRU OCT 15 WHITMPNOCL
THRU DEC 31 WSHTSET270 ..

\$ YRSYS SCH NO COOL SUM
YSHWNOCOL =SCHEDULE THRU MAY 15 WSHTSET270
THRU OCT 15 WSNOCOL
THRU DEC 31 WSHTSET270 ..

OFFPK_SYR =SCHEDULE THRU DEC 31 OFFPK_SW ..

ONPK_SYR =SCHEDULE THRU DEC 31 ONPK_SW ..

\$ ZONE DESCRIPTION

1LDXHT =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -466500.
SIZING-OPTION = FROM-LOADS ..

1LDXNOHT =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

2LDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

3LDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

4LDX =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

1LHWONLY =ZONE DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0
HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOL
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL

BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -514500. ASSIGNED-CFM = 1.
SIZING-OPTION = FROM-LOADS ..

03LHWELV =ZONE DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0
HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOL
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -60000. ASSIGNED-CFM = 1.
SIZING-OPTION = FROM-LOADS ..

4LHWELV =ZONE DESIGN-HEAT-T = 70.0 DESIGN-COOL-T = 90.0
HEAT-TEMP-SCH = YHTSET2-70 COOL-TEMP-SCH = YSHWNOCOL
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -60000. ASSIGNED-CFM = 1.
SIZING-OPTION = FROM-LOADS ..

OLDXHT =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
BASEBOARD-CTRL = THERMOSTATIC
BASEBOARD-RATING = -36000. SIZING-OPTION = FROM-LOADS ..

OLDXONLY =ZONE DESIGN-HEAT-T = 72.0 DESIGN-COOL-T = 75.0
HEAT-TEMP-SCH = YHTSET1 COOL-TEMP-SCH = YCLSET1
ZONE-TYPE = CONDITIONED
THERMOSTAT-TYPE = PROPORTIONAL
SIZING-OPTION = FROM-LOADS ..

\$ SYSTEM DESCRIPTION

1SDXHT =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSHTSEAS1
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 190.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (1LDXHT) ..

1SDX =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YS247DOF
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (1LDXNOHT) ..

2SDX =SYSTEM SYSTEM-TYPE = SZRH
 MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
 HEATING-SCHEDULE = YS247DOF
 COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
 PREHEAT-T = 0.0 OA-CONTROL = FIXED
 MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.42
 SUPPLY-KW = 0.000783 NIGHT-CYCLE-CTRL = STAY-OFF
 NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
 RETURN-AIR-PATH = DUCT
 ZONE-NAMES = (2LDX) ..

3SDX =SYSTEM SYSTEM-TYPE = SZRH
 MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
 HEATING-SCHEDULE = YS247DOF
 COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
 PREHEAT-T = 0.0 ECONO-LIMIT-T = 55.0
 OA-CONTROL = FIXED MAX-OA-FRACTION = 0.0
 SUPPLY-DELTA-T = 2.42 SUPPLY-KW = 0.000783
 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
 MIN-CFM-RATIO = 1.0 HEATING-CAPACITY = -1.
 PREHEAT-SOURCE = HOT-WATER RETURN-AIR-PATH = DUCT
 ZONE-NAMES = (3LDX) ..

4SDX =SYSTEM SYSTEM-TYPE = SZRH
 MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
 HEATING-SCHEDULE = YS247DOF
 COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
 PREHEAT-T = 0.0 OA-CONTROL = FIXED
 MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.42
 SUPPLY-KW = 0.000783 NIGHT-CYCLE-CTRL = STAY-OFF
 NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
 RETURN-AIR-PATH = DUCT
 ZONE-NAMES = (4LDX) ..

1SHWONLY =SYSTEM SYSTEM-TYPE = SZRH
 MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
 HEATING-SCHEDULE = YSHTSEAS1
 COOLING-SCHEDULE = YS247DOF HEAT-SET-T = 55.0
 PREHEAT-T = 0.0 OA-CONTROL = FIXED
 MAX-OA-FRACTION = 0.0 FAN-SCHEDULE = YSHTSEAS1
 SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
 MIN-CFM-RATIO = 1.0 COOLING-CAPACITY = 1.
 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
 RETURN-AIR-PATH = DUCT
 ZONE-NAMES = (1LHWONLY) ..

04SHWELEV =SYSTEM SYSTEM-TYPE = SZRH
 MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
 HEATING-SCHEDULE = YSHTSEAS1
 COOLING-SCHEDULE = YS247DOF HEAT-SET-T = 55.0
 PREHEAT-T = 0.0 OA-CONTROL = FIXED
 MAX-OA-FRACTION = 0.0 FAN-SCHEDULE = YSHTSEAS1
 SUPPLY-DELTA-T = 2.4 SUPPLY-KW = 0.00078
 NIGHT-CYCLE-CTRL = STAY-OFF NIGHT-VENT-DT = 0.0
 MIN-CFM-RATIO = 1.0 COOLING-CAPACITY = 1.
 HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
 RETURN-AIR-PATH = DUCT

ZONE-NAMES = (03LHWELV, 4LHWELV) ..

OSDXHT =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YSHTSEAS1
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (OLDXHT) ..

OSDXNOHT =SYSTEM SYSTEM-TYPE = SZRH
MAX-SUPPLY-T = 190.0 MIN-SUPPLY-T = 55.0
HEATING-SCHEDULE = YS247DOF
COOLING-SCHEDULE = YSON247D HEAT-SET-T = 55.0
PREHEAT-T = 0.0 OA-CONTROL = FIXED
MAX-OA-FRACTION = 0.0 SUPPLY-DELTA-T = 2.4
SUPPLY-KW = 0.00078 NIGHT-CYCLE-CTRL = STAY-OFF
NIGHT-VENT-DT = 0.0 MIN-CFM-RATIO = 1.0
HEATING-CAPACITY = -1. PREHEAT-SOURCE = HOT-WATER
RETURN-AIR-PATH = DUCT
ZONE-NAMES = (OLDXONLY) ..

\$ HOURLY REPORT DESCRIPTION

S_1 =REPORT-BLOCK VARIABLE-TYPE = 1SDXHT
 VARIABLE-LIST = (33) ..
S_2 =REPORT-BLOCK VARIABLE-TYPE = 1SDX
 VARIABLE-LIST = (33) ..
S_3 =REPORT-BLOCK VARIABLE-TYPE = 2SDX
 VARIABLE-LIST = (33) ..
S_4 =REPORT-BLOCK VARIABLE-TYPE = 3SDX
 VARIABLE-LIST = (33) ..
S_5 =REPORT-BLOCK VARIABLE-TYPE = 4SDX
 VARIABLE-LIST = (33) ..
S_6 =REPORT-BLOCK VARIABLE-TYPE = 1SHWONLY
 VARIABLE-LIST = (33) ..
S_7 =REPORT-BLOCK VARIABLE-TYPE = 04SHWELEV
 VARIABLE-LIST = (33) ..
S_8 =REPORT-BLOCK VARIABLE-TYPE = 0SDXHT
 VARIABLE-LIST = (33) ..
S_9 =REPORT-BLOCK VARIABLE-TYPE = 0SDXNOHT
 VARIABLE-LIST = (33) ..
RS_1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK_SYR
 REPORT-BLOCK = (S_1,S_2,S_3,S_4,S_5,S_6,S_7,S_8,S_9)

..
END ..
COMPUTE SYSTEMS ..

INPUT PLANT ..

\$-----\$
\$ E Z - D O E P L A N T S I N P U T \$
\$-----\$

\$ GENERAL PROJECT DATA

TITLE LINE-1 * ENTECH ENGINEERING *
LINE-2 *EZDOE - ELITE SOFTWARE DEVELOPMENT INC*
LINE-3 * READING, PA 19603 *

LINE-4 *4130.05 FT. MONMOUTH - MYER CENTER, NJ *
LINE-5 *FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH * ..

ABORT ERRORS ..
DIAGNOSTIC WARNINGS ..
PLANT-REPORT VERIFICATION=(PV-A)
SUMMARY=(PS-D,BEPS)
REPORT-FREQUENCY = MONTHLY ..

\$ SCHEDULES

D24FULON =DAY-SCHEDULE (1,24) (1.) ..
D24FULOF =DAY-SCHEDULE (1,24) (0.) ..
OFFPK_PD =DAY-SCHEDULE (1,7) (1.)
(8,19) (0.)
(20,24) (1.) ..
ONPK_PD =DAY-SCHEDULE (1,7) (0.)
(8,19) (1.)
(20,24) (0.) ..
OFFPK_PEND =DAY-SCHEDULE (1,24) (1.) ..

W24FULON7D =WEEK-SCHEDULE (ALL) D24FULON ..
W24FULOF7D =WEEK-SCHEDULE (ALL) D24FULOF ..
OFFPK_PW =WEEK-SCHEDULE (WD) OFFPK_PD
(WEH) OFFPK_PEND ..
ONPK_PW =WEEK-SCHEDULE (WD) ONPK_PD
(WEH) D24FULOF ..

\$ YRSCH FUL ON 24HR/7D
Y24FULON7D =SCHEDULE THRU DEC 31 W24FULON7D ..

\$ YRSCH HEATING SEAS1
YHTSEAS1 =SCHEDULE THRU MAY 15 W24FULON7D
THRU OCT 15 W24FULOF7D
THRU DEC 31 W24FULON7D ..

\$ YRSCH COOL SEAS1
YCLSEAS1 =SCHEDULE THRU MAY 15 W24FULOF7D
THRU OCT 15 W24FULON7D
THRU DEC 31 W24FULOF7D ..

OFFPK_PYR =SCHEDULE THRU DEC 31 OFFPK_PW ..
ONPK_PYR =SCHEDULE THRU DEC 31 ONPK_PW ..

\$ EQUIPMENT DESCRIPTION

STMBLR1 =PLANT-EQUIPMENT TYPE = STM-BOILER
 SIZE = -999. ..

HRCCH1 =PLANT-EQUIPMENT TYPE = HERM-REC-CHLR
 SIZE = -999. ..

DHW1 =PLANT-EQUIPMENT TYPE = DHW-HEATER
 SIZE = -999. ..

PLANT-PARAMETERS BOILER-CONTROL = STANDBY HW-BOILER-HIR = 1.2
 TWR-WTR-SET-POINT = 85. TWR-CELL-MAX-GPM = 1.0
 TWR-FAN-OFF-CFM = 0.1 CHILLER-CONTROL = STANDBY
 HERM-REC-COND-TYPE = AIR HERM-REC-COND-PWR = 0.15
 CHILL-WTR-T = 55. CCIRC-HEAD = 100.0
 CCIRC-DESIGN-T-DROP = 5.0 HCIRC-HEAD = 90.0
 HCIRC-DESIGN-T-DROP = 25.0 ..

PART-LOAD-RATIO TYPE = HERM-REC-CHLR
 MIN-RATIO = 0.2500 MAX-RATIO = 1.0000
 OPERATING-RATIO = 1.0000 ELEC-INPUT-RATIO = 0.1600 ..

ENERGY-RESOURCE RESOURCE = FUEL-OIL ..
ENERGY-RESOURCE RESOURCE = ELECTRICITY ..
ENERGY-RESOURCE RESOURCE = NATURAL-GAS ..

\$ HOURLY REPORT DESCRIPTION

P_1 =REPORT-BLOCK VARIABLE-TYPE = HERM-REC-CHLR
 VARIABLE-LIST = (3,18) ..
P_2 =REPORT-BLOCK VARIABLE-TYPE = STM-BOILER
 VARIABLE-LIST = (3,4) ..
RP_1 = HOURLY-REPORT REPORT-SCHEDULE = OFFPK_PYR
 REPORT-BLOCK = (P_1,P_2)

..
END ..
COMPUTE PLANT ..
STOP ..

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
REPORT- LV-A GENERAL PROJECT AND BUILDING INPUT WEATHER FILE- NEWARK, NJ

PERIOD OF STUDY

STARTING DATE	ENDING DATE	NUMBER OF DAYS
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1 JAN 1994	31 DEC 1994	365
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SITE CHARACTERISTIC DATA

STATION NAME	LATITUDE	LONGITUDE	ALTITUDE	TIME	BUILDING AZIMUTH
	(DEG)	(DEG)	(FT)	ZONE	(DEG)
NEWARK, NJ	40.7	74.8	15.	5 EST	0.0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- LV-B SUMMARY OF SPACES OCCURRING IN THE PROJECT WEATHER FILE- NEWARK, NJ

NUMBER OF SPACES 10 EXTERIOR 8 INTERIOR 2

SPACE	SPACE MULT	SPACE TYPE	SPACE AZIMUTH	LIGHTING (WATT / SQFT)	PEOPLE	EQUIP (WATT / SQFT)	INFILTRATION METHOD	AIR CHANGES PER HOUR	AREA (SQFT)	VOLUME (CUFT)
1LDXHT	1.0	EXT	0.0	4.00	57.7	10.00	NO-INFILT.	0.00	16950.00	283065.00
1LDXNOHT	1.0	EXT	0.0	4.00	32.7	10.00	NO-INFILT.	0.00	9601.00	160336.70
2LDX	1.0	INT	0.0	4.00	72.1	10.00	NO-INFILT.	0.00	21192.00	204927.00
3LDX	1.0	INT	0.0	4.00	49.2	10.00	NO-INFILT.	0.00	14457.00	139800.00
4LDX	1.0	EXT	0.0	5.00	119.6	10.00	NO-INFILT.	0.00	35153.00	339930.00
1LHWONLY	1.0	EXT	0.0	2.00	85.6	0.70	AIR-CHANGE	1.00	25161.00	421464.00
03LHWELV	4.0	EXT	0.0	2.00	0.9	0.70	AIR-CHANGE	1.00	250.00	4189.00
4LHWELV	1.0	EXT	0.0	2.00	0.9	0.70	AIR-CHANGE	1.00	250.00	2438.00
0LDXHT	1.0	EXT	0.0	4.00	6.4	5.00	AIR-CHANGE	0.00	1872.00	18720.00
0LDXONLY	1.0	EXT	0.0	4.00	9.7	5.00	NO-INFILT.	0.00	2847.00	28470.00
<hr/>										
BUILDING TOTALS					434.5				127733.00	1603339.75

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- LS-C BUILDING PEAK LOAD COMPONENTS WEATHER FILE- NEWARK, NJ

*** BUILDING ***

FLOOR AREA 128483 SQFT 11936 SQMT
 VOLUME 1615907 CUFT 45762 CUMT

	COOLING LOAD		HEATING LOAD	
	=====		=====	
TIME	JUN 13	3PM	FEB 20	3AM
DRY-BULB TEMP	98F	37C	10F	-12C
WET-BULB TEMP	74F	23C	7F	-14C

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
	-----	-----	-----	-----	-----	-----
WALLS	81.385	23.836	0.000	0.000	-101.427	-29.705
ROOFS	331.822	97.182	0.000	0.000	-492.283	-144.177
GLASS CONDUCTION	29.286	8.577	0.000	0.000	-50.890	-14.905
GLASS SOLAR	96.624	28.299	0.000	0.000	10.021	2.935
DOOR	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACES	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURFACES	-10.842	-3.175	0.000	0.000	-20.172	-5.908
OCCUPANTS TO SPACE	90.468	26.496	78.663	23.038	4.056	1.188
LIGHT TO SPACE	1367.768	400.585	0.000	0.000	86.459	25.322
EQUIPMENT TO SPACE	1587.170	464.842	0.000	0.000	203.194	59.510
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	232.289	68.032	130.782	38.303	-912.613	-267.282
	-----	-----	-----	-----	-----	-----
TOTAL	3805.971	1114.674	209.445	61.341	-1273.655	-373.022
TOTAL LOAD	4015.416 KBTU/H		1176.015 KW		-1273.655 KBTU/H	-373.022 KW
TOTAL LOAD / AREA	31.25BTU/H.SQFT		98.523 W /SQMT		9.913BTU/H.SQFT	31.251 W /SQMT

 *
 * NOTE 1) THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR *
 * ---- LOADS *
 * 2) TIMES GIVEN IN STANDARD TIME FOR THE LOCATION *
 * IN CONSIDERATION *
 *

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- LS-D BUILDING MONTHLY LOADS SUMMARY WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -	
MONTH	COOLING	TIME	DRY-	WET-	MAXIMUM	HEATING	TIME	DRY-	WET-	MAXIMUM	ELEC- TRICAL	MAXIMUM ELEC	
	ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP	COOLING LOAD (KBTU/HR)		ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP			HEATING LOAD (KBTU/HR)
JAN	764.87653	28 14	37.F	30.F	2763.208	-263.115	5 20	15.F	12.F	-1183.963	325164.	1003.650	
FEB	714.90106	8 14	37.F	30.F	2755.603	-223.215	20 3	10.F	7.F	-1273.655	293965.	1003.650	
MAR	897.07300	16 14	67.F	50.F	3146.924	-179.562	5 1	29.F	24.F	-641.753	341826.	1003.650	
APR	954.42029	19 13	76.F	55.F	3476.269	-76.586	9 3	32.F	27.F	-584.333	320318.	1003.650	
MAY	1076.76624	10 13	87.F	68.F	3674.709	-36.413	2 21	50.F	39.F	-366.646	325163.	1003.650	
JUN	1216.21118	13 14	98.F	74.F	3805.970	-3.826	14 23	55.F	54.F	-133.062	328649.	1003.650	
JUL	1221.03735	13 13	90.F	73.F	3743.262	-1.478	15 4	63.F	60.F	-72.973	316832.	1003.650	
AUG	1268.32874	18 13	93.F	72.F	3802.003	-2.790	21 4	60.F	59.F	-110.970	341826.	1003.650	
SEP	1096.32874	7 13	82.F	64.F	3559.754	-9.838	23 4	55.F	47.F	-163.770	320318.	1003.650	
OCT	956.81537	14 13	75.F	61.F	3399.395	-46.571	25 5	41.F	36.F	-449.884	316832.	1003.650	
NOV	834.06848	2 14	77.F	70.F	3269.255	-115.507	25 6	38.F	37.F	-625.698	311987.	1003.650	
DEC	791.99347	2 14	64.F	53.F	3031.096	-234.832	26 7	25.F	24.F	-749.837	325163.	1003.650	

TOTAL	11792.819					-1193.733					3868043.		
MAX					3805.970					-1273.655		1003.650	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 LDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- NEWARK, NJ

(UNITS=MBTU)	WALLS	ROOFS	INT SUR	UND SUR	INFIL	GL CON	GL SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING -50.777	-135.520	0.000	-6.446	-221.726	-23.601	7.231	6.149	73.470	88.103	0.000	-263.115
	SEN CL -47.128	-123.797	0.000	-6.908	-2.359	-33.071	12.208	19.580	343.095	603.255	0.000	764.876
	LAT CL				0.000			15.947		0.000	0.000	15.947
FEB	HEATING -42.955	-101.342	0.000	-6.847	-193.664	-20.514	8.985	5.202	59.837	68.081	0.000	-223.215
	SEN CL -40.029	-114.899	0.000	-6.703	-3.055	-28.634	14.300	18.122	317.869	557.930	0.000	714.901
	LAT CL				0.000			14.684		0.000	0.000	14.684
MAR	HEATING -37.025	-56.959	0.000	-6.298	-181.005	-17.754	11.620	4.985	53.073	49.803	0.000	-179.562
	SEN CL -36.864	-129.589	0.000	-8.841	-7.427	-27.683	20.586	22.716	392.341	671.833	0.000	897.073
	LAT CL				0.215			18.422		0.000	0.000	18.636
APR	HEATING -20.406	-11.900	0.000	-4.267	-85.849	-9.635	8.723	2.761	26.962	17.024	0.000	-76.586
	SEN CL -22.432	-85.502	0.000	-9.628	-11.741	-19.341	28.122	22.903	387.768	664.271	0.000	954.420
	LAT CL				2.501			18.447		0.000	0.000	20.948
MAY	HEATING -11.177	-0.673	0.000	-1.390	-47.522	-5.224	6.550	1.637	15.218	6.170	0.000	-36.413
	SEN CL -10.322	-35.454	0.000	-9.824	-3.783	-12.756	37.890	24.101	401.528	685.384	0.000	1076.765
	LAT CL				12.891			19.453		0.000	0.000	32.344
JUN	HEATING -2.526	-0.052	0.000	0.000	-6.224	-0.988	1.270	0.304	3.129	1.260	0.000	-3.826
	SEN CL 4.149	30.820	0.000	-7.816	9.116	-4.553	40.557	26.256	424.337	693.345	0.000	1216.210
	LAT CL				40.284			21.073		0.000	0.000	61.356
JUL	HEATING -0.916	-0.026	0.000	0.000	-2.614	-0.282	0.364	0.123	1.315	0.557	0.000	-1.478
	SEN CL 10.311	51.721	0.000	-5.356	16.391	-1.342	42.541	24.762	403.475	678.534	0.000	1221.037
	LAT CL				53.322			19.795		0.000	0.000	73.117
AUG	HEATING -2.013	-0.051	0.000	0.000	-4.074	-0.696	0.654	0.209	2.205	0.975	0.000	-2.790
	SEN CL 5.603	31.722	0.000	-3.630	10.701	-3.647	38.272	27.440	442.248	719.621	0.000	1268.329
	LAT CL				49.949			22.022		0.000	0.000	71.971
SEP	HEATING -5.122	-0.107	0.000	0.000	-14.638	-2.014	2.111	0.716	6.753	2.462	0.000	-9.838
	SEN CL -6.770	-16.536	0.000	-3.366	-7.793	-9.711	31.133	24.889	406.859	677.623	0.000	1096.328
	LAT CL				31.379			20.004		0.000	0.000	51.383
OCT	HEATING -15.842	-3.754	0.000	0.000	-54.698	-6.920	5.787	1.944	18.392	8.519	0.000	-46.571
	SEN CL -20.801	-86.592	0.000	-4.874	-13.309	-17.888	22.742	22.881	385.288	669.369	0.000	956.816
	LAT CL				4.719			18.501		0.000	0.000	23.220
NOV	HEATING -29.553	-39.732	0.000	-0.799	-115.842	-13.120	5.834	3.737	39.050	34.918	0.000	-115.507
	SEN CL -32.104	-122.639	0.000	-6.478	-6.046	-23.729	12.958	20.909	360.634	630.564	0.000	834.069
	LAT CL				5.363			16.901		0.000	0.000	22.265
DEC	HEATING -45.484	-100.413	0.000	-3.742	-212.262	-20.903	6.229	5.794	65.101	70.848	0.000	-234.832
	SEN CL -42.775	-133.418	0.000	-6.818	-2.372	-30.559	11.272	20.054	353.689	622.921	0.000	791.993
	LAT CL				0.000			16.188		0.000	0.000	16.188
TOT	HEATING -263.794	-450.528	0.000	-29.789	-1140.108	-121.650	65.358	33.561	364.507	348.729	0.000	-1193.713
	SEN CL -239.162	-734.162	0.000	-80.243	-21.678	-212.912	312.581	274.624	4619.205	7874.564	0.000	11792.817

LAT CL

200.622

221.443

0.000

0.000

422.065

MESSAGE LIST FROM SYSTEMS PROGRAM

```

**WARNING*****
      SYSTEM 1SDXHT          HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 1SDX           HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 1SDX           MAY HAVE INADEQUATE HEATING CAPABILIT Y
      (CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 2SDX           HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 2SDX           MAY HAVE INADEQUATE HEATING CAPABILIT Y
      (CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 3SDX           HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 3SDX           MAY HAVE INADEQUATE HEATING CAPABILIT Y
      (CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 4SDX           HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 4SDX           MAY HAVE INADEQUATE HEATING CAPABILIT Y
      (CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 1SHWONLY       HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 1SHWONLY       MAY HAVE INADEQUATE COOLING CAPABILITY
      (CHECK COOLING-CAPACITY AND MIN-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 04SHWELEV      HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 04SHWELEV      MAY HAVE INADEQUATE COOLING CAPABILITY
      (CHECK COOLING-CAPACITY AND MIN-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 0SDXHT         HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

**WARNING*****
      SYSTEM 0SDXHT         MAY HAVE INADEQUATE HEATING CAPABILIT Y
      (CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

**WARNING*****
      SYSTEM 0SDXNOHT       HAS ZERO OUTSIDE AIR FOR DESIGN CALCULATION

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WARNING***

SYSTEM 0SDXNOHT MAY HAVE INADEQUATE HEATING CAPABILIT Y
(CHECK HEATING-CAPACITY,HEAT-SET-T,PRE-HEAT-T AND MAX-SUPPLY-T FOR CONSISTENCY)

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR DEFAULT-PLANT WEATHER FILE- NEWARK, NJ

C O O L I N G						H E A T I N G						E L E C		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
	ENERGY (MBTU)	OF	MAX	BULB	BULB	COOLING LOAD (KBTU/HR)		OF	MAX	BULB	BULB	HEATING LOAD (KBTU/HR)		
JAN	1030.86877	28	14	37.F	30.F	2990.694	-195.082	5	20	15.F	12.F	-584.666	417931.	1128.341
FEB	958.76001	11	14	52.F	50.F	3034.267	-167.990	20	3	10.F	7.F	-581.473	377755.	1128.341
MAR	1184.26794	16	14	67.F	50.F	3266.959	-140.064	5	1	29.F	24.F	-531.706	434594.	1128.341
APR	1225.55615	15	15	73.F	55.F	3496.059	-48.435	9	4	32.F	27.F	-457.452	410094.	1128.341
MAY	1334.88306	10	13	85.F	68.F	3597.508	-6.228	4	2	40.F	35.F	-227.738	417930.	1128.341
JUN	1431.97034	13	14	96.F	73.F	3710.452	0.000					0.000	418423.	1128.337
JUL	1435.57861	12	13	87.F	71.F	3730.172	0.000					0.000	409597.	1128.337
AUG	1489.34998	12	14	87.F	69.F	3730.011	0.000					0.000	434592.	1128.337
SEP	1342.88159	16	14	76.F	63.F	3545.524	0.000					0.000	410092.	1128.337
OCT	1240.27942	14	14	75.F	61.F	3435.643	-12.581	25	6	41.F	36.F	-322.264	409598.	1128.341
NOV	1113.56702	2	14	77.F	70.F	3359.911	-85.671	25	6	38.F	37.F	-476.418	401762.	1128.341
DEC	1071.41553	2	14	64.F	53.F	3183.396	-183.532	24	13	33.F	29.F	-542.650	417931.	1128.341

TOTAL	14859.358						-839.583						4960114.	
MAX						3730.172						-584.666		1128.341

ENTech ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCa3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SDXHT WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -					- - - E L E C - - -	
MONTH	COOLING	TIME	DRY-	WET-	MAXIMUM	HEATING	TIME	DRY-	WET-	MAXIMUM	ELEC- TRICAL	MAXIMUM ELEC
	ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP	COOLING LOAD (KBTU/HR)		ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP		
JAN	175.76674	28 14	37.F	30.F	508.361	0.000				0.000	65595.	172.688
FEB	164.49419	23 14	39.F	32.F	512.493	0.000				0.000	59288.	172.688
MAR	202.85103	16 14	67.F	50.F	561.898	0.000				0.000	68130.	172.688
APR	210.12144	21 14	80.F	62.F	581.345	0.000				0.000	64338.	172.688
MAY	228.43086	10 14	87.F	68.F	609.368	0.000				0.000	65595.	172.688
JUN	242.29442	30 14	91.F	74.F	610.740	0.000				0.000	65605.	172.688
JUL	243.20132	13 14	90.F	73.F	609.506	0.000				0.000	64328.	172.688
AUG	251.53531	18 14	93.F	72.F	612.498	0.000				0.000	68130.	172.688
SEP	227.46468	7 13	82.F	65.F	594.641	0.000				0.000	64338.	172.688
OCT	211.08777	14 14	75.F	61.F	576.856	0.000				0.000	64328.	172.688
NOV	188.37050	2 14	77.F	70.F	553.353	0.000				0.000	63070.	172.688
DEC	181.37585	2 14	64.F	53.F	542.733	0.000				0.000	65595.	172.688

TOTAL	2526.995					0.000					778322.	
MAX					612.498					0.000		172.688

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SDXHT WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - ZONE HEATING - - - BASEBOARDS - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-K SPACE TEMPERATURE SUMMARY 1SDXHT WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL	COOLING	HEATING	FAN ON	FAN OFF	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	
	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	
JAN	74.81	74.81		74.81	0.00	-43.45	-43.45	0.00		1346.87	0.00000
FEB	74.84	74.84		74.84	0.00	-41.62	-41.62	0.00		1165.24	-0.00003
MAR	74.94	74.94		74.94	0.00	-34.43	-34.43	0.00		1067.33	-0.00002
APR	75.00	75.00		75.00	0.00	-22.10	-22.10	0.00		664.92	0.00012
MAY	75.04	75.04		75.04	0.00	-12.76	-12.76	0.00		444.66	0.00067
JUN	75.13	75.13		75.13	0.00	-2.92	-2.92	0.00		215.17	0.00253
JUL	75.10	75.10		75.10	0.00	0.37	0.37	0.00		169.44	0.00318
AUG	75.14	75.14		75.14	0.00	-1.65	-1.65	0.00		194.02	0.00370
SEP	75.07	75.07		75.07	0.00	-8.08	-8.08	0.00		262.41	0.00236
OCT	74.96	74.96		74.96	0.00	-17.87	-17.87	0.00		558.35	0.00061
NOV	74.89	74.89		74.89	0.00	-28.67	-28.67	0.00		860.40	0.00030
DEC	74.83	74.83		74.83	0.00	-39.29	-39.29	0.00		1217.88	-0.00003
ANNUAL	74.98	74.98	0.00	74.98	0.00	-20.93	-20.93	0.00	0.00	8166.68	0.00112

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-F ZONE DEMAND SUMMARY IN 1SDXHT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FOR 1LXHT

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOC3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

- - - - DEMANDS - - - - - BASEBOARDS - - - - - TEMPERATURES - - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	124.84687	0.000	0.00000	0.000	75.7	74.3	0	0
FEB	118.50689	0.000	0.00000	0.000	75.7	74.2	0	0
MAR	151.90965	0.000	0.00000	0.000	75.9	74.4	0	0
APR	160.57507	0.000	0.00000	0.000	76.0	74.4	0	0
MAY	176.47926	0.000	0.00000	0.000	76.0	74.5	0	0
JUN	190.88374	0.000	0.00000	0.000	76.0	74.6	0	0
JUL	190.27350	0.000	0.00000	0.000	76.0	74.6	0	0
AUG	198.23311	0.000	0.00000	0.000	76.2	74.5	0	0
SEP	176.78696	0.000	0.00000	0.000	76.0	74.5	0	0
OCT	159.41942	0.000	0.00000	0.000	75.9	74.4	0	0
NOV	138.75520	0.000	0.00000	0.000	75.9	74.4	0	0
DEC	130.46097	0.000	0.00000	0.000	75.8	74.3	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
FEB	100.79175	11 14	52.F	50.F	287.939	0.000				0.000	32807.	96.661
MAR	120.17087	15 15	65.F	58.F	298.072	0.000				0.000	37732.	96.661
APR	118.69505	22 14	68.F	60.F	304.955	0.000				0.000	35611.	96.661
MAY	125.52036	10 14	87.F	68.F	312.632	0.000				0.000	36296.	96.661
JUN	129.99603	29 14	87.F	69.F	313.938	0.000				0.000	36329.	96.661
JUL	128.70070	12 14	88.F	72.F	312.708	0.000				0.000	35578.	96.661
AUG	134.39304	9 14	88.F	71.F	313.318	0.000				0.000	37732.	96.661
SEP	123.55710	15 14	80.F	69.F	310.071	0.000				0.000	35611.	96.661
OCT	118.33138	21 14	68.F	60.F	303.654	0.000				0.000	35578.	96.661
NOV	111.27756	2 14	77.F	70.F	306.192	0.000				0.000	34893.	96.661
DEC	111.83203	2 14	64.F	53.F	293.754	0.000				0.000	36296.	96.661

TOTAL	1433.146					0.000					430762.	
MAX					313.938					0.000		96.661

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - ZONE HEATING - - - BASEBOARDS - - - - PRE-HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

MONTH	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	74.99	74.99		74.99	0.00	-43.63	-43.63	0.00		1352.55	-0.00001
FEB	75.00	75.00		75.00	0.00	-41.78	-41.78	0.00		1169.97	-0.00003
MAR	75.08	75.08		75.08	0.00	-34.58	-34.58	0.00		1071.96	-0.00003
APR	75.10	75.10		75.10	0.00	-22.20	-22.20	0.00		668.04	0.00011
MAY	75.12	75.12		75.12	0.00	-12.84	-12.84	0.00		446.93	0.00066
JUN	75.19	75.19		75.19	0.00	-2.98	-2.98	0.00		216.33	0.00251
JUL	75.14	75.14		75.14	0.00	0.33	0.33	0.00		170.21	0.00317
AUG	75.19	75.19		75.19	0.00	-1.70	-1.70	0.00		194.95	0.00368
SEP	75.13	75.13		75.13	0.00	-8.14	-8.14	0.00		264.22	0.00235
OCT	75.06	75.06		75.06	0.00	-17.97	-17.97	0.00		561.32	0.00060
NOV	75.03	75.03		75.03	0.00	-28.81	-28.81	0.00		864.56	0.00029
DEC	75.01	75.01		75.01	0.00	-39.46	-39.46	0.00		1223.30	-0.00003
ANNUAL	75.09	75.09	0.00	75.09	0.00	-21.04	-21.04	0.00	0.00	8204.31	0.00111

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-F ZONE DEMAND SUMMARY IN 1SDX FOR 1LDXNOHT WEATHER FILE- NEWARK, NJ

- - - -D E M A N D S- - - - -B A S E B O A R D S- - - - -T E M P E R A T U R E S- - - - -L O A D S N O T M E T- -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	83.94625	0.000	0.00000	0.000	75.9	74.5	0	0
FEB	77.37153	0.000	0.00000	0.000	75.9	74.5	0	0
MAR	94.22594	0.000	0.00000	0.000	76.0	74.5	0	0
APR	93.45490	0.000	0.00000	0.000	76.0	74.5	0	0
MAY	99.00498	0.000	0.00000	0.000	76.1	74.6	0	0
JUN	103.68858	0.000	0.00000	0.000	76.2	74.6	0	0
JUL	101.63277	0.000	0.00000	0.000	76.2	74.6	0	0
AUG	107.10589	0.000	0.00000	0.000	76.2	74.6	0	0
SEP	97.66648	0.000	0.00000	0.000	76.1	74.6	0	0
OCT	91.98180	0.000	0.00000	0.000	76.0	74.5	0	0
NOV	85.99596	0.000	0.00000	0.000	76.0	74.5	0	0
DEC	85.90159	0.000	0.00000	0.000	75.9	74.5	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 2SDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF	MAX	BULB	BULB	COOLING		ENERGY	OF	MAX	BULB	BULB	HEATING	TRICAL
	(MBTU)	DY	HR	TEMP	TEMP	LOAD						LOAD	ENERGY	LOAD
				TEMP	TEMP	(KBTU/HR)				TEMP	TEMP	(KBTU/HR)	(KWH)	(KW)
JAN	274.32330	20	14	35.F	35.F	648.640	0.000					0.000	79332.	212.306
FEB	248.51154	9	14	38.F	33.F	653.556	0.000					0.000	71706.	212.306
MAR	286.07492	15	15	65.F	58.F	656.496	0.000					0.000	82501.	212.306
APR	270.78506	29	14	64.F	60.F	658.082	0.000					0.000	77847.	212.306
MAY	275.68390	18	14	67.F	59.F	661.414	0.000					0.000	79332.	212.306
JUN	278.04584	29	14	87.F	69.F	660.947	0.000					0.000	79431.	212.306
JUL	272.46158	26	14	80.F	64.F	662.274	0.000					0.000	77748.	212.306
AUG	288.48929	2	14	78.F	63.F	660.852	0.000					0.000	82501.	212.306
SEP	271.60422	14	14	73.F	62.F	663.940	0.000					0.000	77847.	212.306
OCT	270.24704	21	14	68.F	60.F	662.417	0.000					0.000	77748.	212.306
NOV	264.62100	1	14	71.F	68.F	660.767	0.000					0.000	76262.	212.306
DEC	275.57596	1	14	49.F	43.F	650.005	0.000					0.000	79332.	212.306

TOTAL	3276.426						0.000						941521.	
MAX						663.940						0.000		212.306

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 2SDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

	ZONE COIL	MAXIMUM ZONE COIL	ZONE COIL	MAXIMUM ZONE COIL	BASEBOARD	MAXIMUM BASEBOARD	PRE-HEAT	MAXIMUM PRE-HEAT
	COOLING	COOLING	HEATING	HEATING	HEATING	HEATING	COIL	COIL
	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-K SPACE TEMPERATURE SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 2SDX

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	75.17	75.17		75.17	0.00	-43.81	-43.81	0.00		1358.22	-0.00001
FEB	75.18	75.18		75.18	0.00	-41.96	-41.96	0.00		1174.75	-0.00003
MAR	75.23	75.23		75.23	0.00	-34.73	-34.73	0.00		1076.49	-0.00003
APR	75.20	75.20		75.20	0.00	-22.30	-22.30	0.00		670.89	0.00011
MAY	75.17	75.17		75.17	0.00	-12.89	-12.89	0.00		448.60	0.00066
JUN	75.22	75.22		75.22	0.00	-3.01	-3.01	0.00		217.23	0.00251
JUL	75.15	75.15		75.15	0.00	0.32	0.32	0.00		170.89	0.00318
AUG	75.22	75.22		75.22	0.00	-1.73	-1.73	0.00		195.61	0.00369
SEP	75.19	75.19		75.19	0.00	-8.20	-8.20	0.00		265.65	0.00235
OCT	75.14	75.14		75.14	0.00	-18.06	-18.06	0.00		564.10	0.00060
NOV	75.17	75.17		75.17	0.00	-28.94	-28.94	0.00		868.58	0.00029
DEC	75.18	75.18		75.18	0.00	-39.63	-39.63	0.00		1228.59	-0.00004
ANNUAL	75.19	75.19	0.00	75.19	0.00	-21.14	-21.14	0.00	0.00	8239.62	0.00111

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-F ZONE DEMAND SUMMARY IN 2SDX

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FOR 2LDX

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

- - - DEMANDS - - - - BASEBOARDS - - - - TEMPERATURES - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	219.48587	0.000	0.00000	0.000	76.3	74.7	0	0
FEB	198.98672	0.000	0.00000	0.000	76.4	74.7	0	0
MAR	231.21049	0.000	0.00000	0.000	76.5	74.7	0	0
APR	217.41350	0.000	0.00000	0.000	76.4	74.7	0	0
MAY	219.58954	0.000	0.00000	0.000	76.3	74.7	0	0
JUN	222.31543	0.000	0.00000	0.000	76.3	74.7	0	0
JUL	215.12756	0.000	0.00000	0.000	76.3	74.7	0	0
AUG	230.66203	0.000	0.00000	0.000	76.3	74.7	0	0
SEP	216.78177	0.000	0.00000	0.000	76.4	74.7	0	0
OCT	214.50052	0.000	0.00000	0.000	76.3	74.7	0	0
NOV	211.17157	0.000	0.00000	0.000	76.3	74.7	0	0
DEC	220.74312	0.000	0.00000	0.000	76.3	74.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 3SDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -					- - - E L E C - - -	
MONTH	COOLING	TIME	DRY-	WET-	MAXIMUM	HEATING	TIME	DRY-	WET-	MAXIMUM	ELEC- TRICAL	MAXIMUM ELEC
	ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP	COOLING LOAD (KBTU/HR)		ENERGY (MBTU)	OF MAX DY HR	BULB TEMP	BULB TEMP		
JAN	187.14217	20 14	35.F	35.F	442.508	0.000				0.000	54120.	144.834
FEB	169.53336	9 14	38.F	33.F	445.851	0.000				0.000	48917.	144.834
MAR	195.15898	15 15	65.F	58.F	447.863	0.000				0.000	56282.	144.834
APR	184.72827	29 14	64.F	60.F	448.949	0.000				0.000	53106.	144.834
MAY	188.07011	18 14	67.F	59.F	451.222	0.000				0.000	54120.	144.834
JUN	189.68146	29 14	87.F	69.F	450.903	0.000				0.000	54187.	144.834
JUL	185.87202	26 14	80.F	64.F	451.809	0.000				0.000	53039.	144.834
AUG	196.80603	2 14	78.F	63.F	450.839	0.000				0.000	56282.	144.834
SEP	185.28709	14 14	73.F	62.F	452.945	0.000				0.000	53106.	144.834
OCT	184.36110	21 14	68.F	60.F	451.906	0.000				0.000	53039.	144.834
NOV	180.52327	1 14	71.F	68.F	450.781	0.000				0.000	52025.	144.834
DEC	187.99649	1 14	49.F	43.F	443.439	0.000				0.000	54120.	144.834

TOTAL	2235.162					0.000					642340.	
MAX					452.945					0.000		144.834

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOC3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 3SDX WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-K SPACE TEMPERATURE SUMMARY 3SDX WEATHER FILE- NEWARK, NJ

MONTH	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	75.17	75.17		75.17	0.00	-43.81	-43.81	0.00		1358.22	-0.00001
FEB	75.18	75.18		75.18	0.00	-41.96	-41.96	0.00		1174.75	-0.00003
MAR	75.23	75.23		75.23	0.00	-34.73	-34.73	0.00		1076.49	-0.00003
APR	75.20	75.20		75.20	0.00	-22.30	-22.30	0.00		670.88	0.00011
MAY	75.17	75.17		75.17	0.00	-12.89	-12.89	0.00		448.60	0.00066
JUN	75.22	75.22		75.22	0.00	-3.01	-3.01	0.00		217.23	0.00251
JUL	75.15	75.15		75.15	0.00	0.32	0.32	0.00		170.89	0.00317
AUG	75.22	75.22		75.22	0.00	-1.73	-1.73	0.00		195.61	0.00369
SEP	75.19	75.19		75.19	0.00	-8.20	-8.20	0.00		265.64	0.00235
OCT	75.14	75.14		75.14	0.00	-18.06	-18.06	0.00		564.09	0.00060
NOV	75.17	75.17		75.17	0.00	-28.94	-28.94	0.00		868.57	0.00029
DEC	75.18	75.18		75.18	0.00	-39.63	-39.63	0.00		1228.58	-0.00004
ANNUAL	75.19	75.19	0.00	75.19	0.00	-21.14	-21.14	0.00	0.00	8239.58	0.00111

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-F ZONE DEMAND SUMMARY IN 3SDX FOR 3LDX WEATHER FILE- NEWARK, NJ

- - - DEMANDS - - - - BASEBOARDS - - - - TEMPERATURES - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	149.73132	0.000	0.00000	0.000	76.3	74.7	0	0
FEB	135.74727	0.000	0.00000	0.000	76.4	74.7	0	0
MAR	157.72980	0.000	0.00000	0.000	76.5	74.7	0	0
APR	148.31773	0.000	0.00000	0.000	76.4	74.7	0	0
MAY	149.80225	0.000	0.00000	0.000	76.3	74.7	0	0
JUN	151.66167	0.000	0.00000	0.000	76.3	74.7	0	0
JUL	146.75827	0.000	0.00000	0.000	76.3	74.7	0	0
AUG	157.35567	0.000	0.00000	0.000	76.3	74.7	0	0
SEP	147.88680	0.000	0.00000	0.000	76.4	74.7	0	0
OCT	146.33066	0.000	0.00000	0.000	76.3	74.7	0	0
NOV	144.05949	0.000	0.00000	0.000	76.3	74.7	0	0
DEC	150.58902	0.000	0.00000	0.000	76.3	74.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 4SDX WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX		DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX		DRY- BULB TEMP	WET- BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC- TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
		DY	HR					DY	HR					
JAN	263.09409	25	14	52.F	41.F	1034.193	0.000					0.000	153775.	405.473
FEB	257.19397	14	14	51.F	41.F	1088.319	0.000					0.000	138988.	405.473
MAR	356.41827	16	14	67.F	50.F	1242.498	0.000					0.000	159607.	405.473
APR	415.84497	15	15	73.F	55.F	1457.977	0.000					0.000	150790.	405.473
MAY	485.99478	25	12	72.F	54.F	1491.360	0.000					0.000	153774.	405.473
JUN	555.14801	13	14	96.F	73.F	1591.747	0.000					0.000	153706.	405.473
JUL	566.44348	25	14	84.F	65.F	1628.274	0.000					0.000	150858.	405.473
AUG	575.93042	12	13	84.F	70.F	1604.572	0.000					0.000	159607.	405.473
SEP	497.02283	7	14	82.F	64.F	1460.793	0.000					0.000	150790.	405.473
OCT	422.63153	14	14	75.F	61.F	1368.694	0.000					0.000	150858.	405.473
NOV	340.81183	2	14	77.F	70.F	1298.614	0.000					0.000	147874.	405.473
DEC	290.52545	2	14	64.F	53.F	1171.184	0.000					0.000	153775.	405.473

TOTAL	5027.062						0.000						1824458.	
MAX						1628.274						0.000		405.473

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 4SDX WEATHER FILE- NEWARK, NJ

- ZONE COOLING- - - ZONE HEATING - - - BASEBOARDS - - - - PRE-HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-K SPACE TEMPERATURE SUMMARY 4SDX WEATHER FILE- NEWARK, NJ

MONTH	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	74.44	74.48		74.44	0.00	-43.08	-43.08	0.00		1335.48	0.00000
FEB	74.41	74.54		74.41	0.00	-41.19	-41.19	0.00		1153.42	-0.00002
MAR	74.61	74.61		74.61	0.00	-34.11	-34.11	0.00		1057.39	-0.00001
APR	74.74	74.74		74.74	0.00	-21.84	-21.84	0.00		657.38	0.00013
MAY	74.83	74.83		74.83	0.00	-12.55	-12.55	0.00		439.51	0.00069
JUN	74.98	74.98		74.98	0.00	-2.77	-2.77	0.00		213.07	0.00257
JUL	74.96	74.96		74.96	0.00	0.51	0.51	0.00		168.80	0.00321
AUG	74.98	74.98		74.98	0.00	-1.49	-1.49	0.00		192.79	0.00374
SEP	74.88	74.88		74.88	0.00	-7.89	-7.89	0.00		257.71	0.00239
OCT	74.72	74.72		74.72	0.00	-17.64	-17.64	0.00		551.03	0.00063
NOV	74.61	74.61		74.61	0.00	-28.38	-28.38	0.00		851.84	0.00031
DEC	74.50	74.50		74.50	0.00	-38.95	-38.95	0.00		1207.55	-0.00002
ANNUAL	74.72	74.74	0.00	74.72	0.00	-20.67	-20.67	0.00	0.00	8085.99	0.00114

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-F ZONE DEMAND SUMMARY IN 4SDX FOR 4LDX WEATHER FILE- NEWARK, NJ

- - - DEMANDS - - - - - BASEBOARDS - - - - - TEMPERATURES - - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	158.36589	-31.797	0.00000	0.000	75.3	73.3	0	0
FEB	158.89586	-25.314	0.00000	0.000	75.4	72.1	0	0
MAR	227.06105	-7.621	0.00000	0.000	75.6	74.1	0	0
APR	284.07574	-1.363	0.00000	0.000	75.9	74.1	0	0
MAY	346.84781	-0.013	0.00000	0.000	75.9	74.2	0	0
JUN	418.25571	0.000	0.00000	0.000	76.0	74.4	0	0
JUL	425.31116	0.000	0.00000	0.000	76.0	74.4	0	0
AUG	434.02057	0.000	0.00000	0.000	76.0	74.3	0	0
SEP	361.56223	0.000	0.00000	0.000	75.9	74.3	0	0
OCT	284.46936	-0.378	0.00000	0.000	75.7	74.2	0	0
NOV	212.56813	-4.977	0.00000	0.000	75.6	74.1	0	0
DEC	174.80289	-21.092	0.00000	0.000	75.5	73.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 1SHWONLY WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING	TIME		DRY-	WET-	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-	MAXIMUM ELEC LOAD (KW)
	ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		TRICAL ENERGY (KWH)	
JAN	0.00000					0.000	-174.148	6	13	22.F	16.F	-514.496	15922.	59.104
FEB	0.00000					0.000	-150.199	21	11	27.F	22.F	-514.496	14397.	59.104
MAR	0.00000					0.000	-124.927	5	1	29.F	24.F	-489.862	16895.	59.104
APR	0.00000					0.000	-41.582	9	4	32.F	27.F	-419.899	15738.	59.104
MAY	0.00000					0.000	-4.892	4	2	40.F	35.F	-204.153	15922.	59.104
JUN	0.00000					0.000	0.000					0.000	16224.	59.104
JUL	0.00000					0.000	0.000					0.000	15435.	59.104
AUG	0.00000					0.000	0.000					0.000	16895.	59.104
SEP	0.00000					0.000	0.000					0.000	15738.	59.104
OCT	0.00000					0.000	-10.179	25	6	41.F	36.F	-293.686	15436.	59.104
NOV	0.00000					0.000	-74.748	25	6	38.F	37.F	-440.567	15252.	59.104
DEC	0.00000					0.000	-164.725	24	13	33.F	29.F	-502.472	15922.	59.104
TOTAL	0.000						-745.399						189781.	
MAX						0.000						-514.496		59.104

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOC3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 1SHWONLY WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - ZONE HEATING - - - BASEBOARDS - - - - PRE-HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-174.14850	-514.496	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-150.19852	-514.496	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-124.92693	-489.862	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	-41.58194	-419.899	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-4.89179	-204.153	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	-10.17935	-293.686	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-74.74754	-440.567	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-164.72507	-502.472	0.00000	0.000
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TOTAL	0.000		0.000		-745.399		0.000	
MAX		0.000		0.000		-514.496		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCAL3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-K SPACE TEMPERATURE SUMMARY 1SHWONLY WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	68.65		68.55	68.65	0.00	-37.29	-37.29	0.00	1108.80	1156.08	-0.00024
FEB	69.01		68.90	69.01	0.00	-35.79	-35.79	0.00	948.70	1002.03	-0.00024
MAR	69.56		69.24	69.56	0.00	-29.06	-29.06	0.00	813.52	900.81	-0.00023
APR	72.34		69.47	72.34	0.00	-19.44	-19.44	0.00	312.97	583.31	-0.00024
MAY	75.61		69.62	76.66	74.62	-13.33	-14.00	-12.69	47.79	428.51	-0.00190
JUN	87.78			0.00	87.78	-15.57	0.00	-15.57			-0.00076
JUL	91.21			0.00	91.21	-15.74	0.00	-15.74			0.00019
AUG	91.10			0.00	91.10	-17.61	0.00	-17.61			0.00073
SEP	82.46			0.00	82.46	-15.47	0.00	-15.47			-0.00135
OCT	71.92		69.66	72.43	71.37	-14.83	-14.96	-14.69	89.43	463.25	-0.00240
NOV	70.87		69.43	70.87	0.00	-24.64	-24.64	0.00	563.31	739.34	-0.00028
DEC	69.20		69.09	69.20	0.00	-33.66	-33.66	0.00	1007.61	1043.34	-0.00021
ANNUAL	76.69	0.00	69.09	70.60	85.12	-22.64	-27.71	-15.61	4892.13	8282.66	-0.00058

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-F ZONE DEMAND SUMMARY IN 1SHWONLY FOR 1LHWONLY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

- - - D E M A N D S - - - - - B A S E B O A R D S - - - - T E M P E R A T U R E S - - - L O A D S N O T M E T - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.02220	-0.227	-174.14850	-514.496	72.4	57.2	61	0
FEB	0.02024	-0.227	-150.19852	-514.496	71.9	61.7	30	0
MAR	0.02285	-0.114	-124.92693	-489.862	75.3	68.1	0	0
APR	0.02337	-0.342	-41.58194	-419.899	85.3	68.4	0	0
MAY	0.01259	-0.083	-4.89179	-204.153	91.1	69.2	0	0
JUN	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
JUL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
AUG	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
OCT	0.01288	-0.113	-10.17935	-293.686	81.7	68.9	0	0
NOV	0.02295	-0.053	-74.74754	-440.567	83.8	68.3	0	0
DEC	0.02258	-0.080	-164.72507	-502.472	73.9	68.0	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR 04SHWELEV WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING	TIME		DRY-	WET-	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-	MAXIMUM
	ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		TRICAL ENERGY (KWH)	ELEC LOAD (KW)
JAN	0.00000					0.000	-20.829	5	20	15.F	12.F	-70.170	794.	2.940
FEB	0.00000					0.000	-17.583	20	3	10.F	7.F	-64.515	718.	2.940
MAR	0.00000					0.000	-15.075	5	1	29.F	24.F	-41.844	842.	2.940
APR	0.00000					0.000	-6.853	9	4	32.F	27.F	-37.553	785.	2.940
MAY	0.00000					0.000	-1.336	4	2	40.F	35.F	-23.584	792.	2.940
JUN	0.00000					0.000	0.000					0.000	806.	2.936
JUL	0.00000					0.000	0.000					0.000	767.	2.936
AUG	0.00000					0.000	0.000					0.000	839.	2.936
SEP	0.00000					0.000	0.000					0.000	782.	2.936
OCT	0.00000					0.000	-2.401	25	6	41.F	36.F	-28.578	768.	2.940
NOV	0.00000					0.000	-10.923	25	6	38.F	37.F	-35.851	760.	2.940
DEC	0.00000					0.000	-18.807	26	7	25.F	24.F	-42.089	794.	2.940
TOTAL	0.000						-93.808						9447.	
MAX						0.000						-70.170		2.940

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOC3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR 04SHWELEV WEATHER FILE- NEWARK, NJ

- ZONE COOLING- - - ZONE HEATING - - - BASEBOARDS - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-20.82914	-70.170	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-17.58308	-64.515	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-15.07471	-41.844	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	-6.85345	-37.553	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	-1.33639	-23.584	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	-2.40120	-28.578	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	-10.92310	-35.851	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	-18.80719	-42.089	0.00000	0.000
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TOTAL	0.000		0.000		-93.808		0.000	
MAX		0.000		0.000		-70.170		0.000

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-K SPACE TEMPERATURE SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 04SHWELEV

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	
JAN	69.81		69.81	69.81	0.00	-38.45	-38.45	0.00	1190.08	1192.06	-0.00025
FEB	69.83		69.82	69.83	0.00	-36.61	-36.61	0.00	1022.48	1024.94	-0.00025
MAR	69.92		69.86	69.92	0.00	-29.41	-29.41	0.00	901.01	911.70	-0.00024
APR	70.65		69.91	70.65	0.00	-17.75	-17.75	0.00	467.41	533.82	-0.00025
MAY	70.72		69.94	73.13	68.45	-8.43	-10.47	-6.52	108.25	295.47	-0.00191
JUN	78.85			0.00	78.85	-6.64	0.00	-6.64			-0.00076
JUL	82.32			0.00	82.32	-6.85	0.00	-6.85			0.00019
AUG	80.73			0.00	80.73	-7.24	0.00	-7.24			0.00073
SEP	73.89			0.00	73.89	-6.90	0.00	-6.90			-0.00135
OCT	66.80		69.94	70.58	62.76	-9.71	-13.11	-6.08	168.83	311.97	-0.00241
NOV	70.26		69.89	70.26	0.00	-24.04	-24.04	0.00	696.10	721.09	-0.00029
DEC	69.85		69.83	69.85	0.00	-34.30	-34.30	0.00	1057.10	1063.38	-0.00022
ANNUAL	72.82	0.00	69.86	70.31	76.30	-18.77	-27.42	-6.79	5611.24	6937.85	-0.00059

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-F ZONE DEMAND SUMMARY IN 04SHWELEV FOR 03LHWELV

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1

- - - DEMANDS - - - - BASEBOARDS - - - - TEMPERATURES - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.00364	-0.001	-4.18313	-14.594	70.7	69.5	0	0
FEB	0.00352	-0.001	-3.53836	-13.297	70.1	69.6	0	0
MAR	0.00457	-0.001	-3.04704	-8.564	73.8	69.7	0	0
APR	0.00568	-0.006	-1.38425	-7.710	79.9	69.7	0	0
MAY	0.00331	-0.004	-0.27111	-4.777	87.7	69.8	0	0
JUN	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
JUL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
AUG	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
OCT	0.00326	-0.005	-0.48151	-5.872	78.3	69.8	0	0
NOV	0.00511	-0.001	-2.18267	-7.380	79.2	69.8	0	0
DEC	0.00398	-0.001	-3.78570	-8.592	73.0	69.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-F ZONE DEMAND SUMMARY IN 04SHWELEV FOR 4LHWELV WEATHER FILE- NEWARK, NJ

- - - -DEMANDS- - - - -BASEBOARDS- - - - -TEMPERATURES- - - -LOADS NOT MET- -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.00367	-0.001	-4.09665	-11.793	70.4	69.6	0	0
FEB	0.00358	-0.001	-3.42965	-11.325	70.1	69.6	0	0
MAR	0.00468	-0.001	-2.88654	-7.587	74.5	69.7	0	0
APR	0.00585	-0.006	-1.31647	-6.750	81.1	69.8	0	0
MAY	0.00344	-0.004	-0.25195	-4.475	88.6	69.9	0	0
JUN	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
JUL	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
AUG	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
SEP	0.00000	0.000	0.00000	0.000	0.0	200.0	0	0
OCT	0.00328	-0.004	-0.47515	-5.090	78.9	69.8	0	0
NOV	0.00506	-0.002	-2.19242	-6.589	79.1	69.8	0	0
DEC	0.00404	-0.001	-3.66441	-8.111	73.2	69.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSDXHT WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -						- - - - - H E A T I N G - - - - -						- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING	TIME		DRY-	WET-	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-	MAXIMUM ELEC LOAD (KW)
	ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		ENERGY (MBTU)	OF MAX	HR	BULB TEMP	BULB TEMP		TRICAL ENERGY (KWH)	
JAN	6.29961	14	14	40.F	32.F	28.470	-0.104	17	6	16.F	14.F	-2.105	4812.	13.637
FEB	5.40456	18	14	42.F	34.F	27.983	-0.208	7	6	14.F	12.F	-3.249	4350.	13.637
MAR	7.11239	16	14	67.F	50.F	30.886	-0.063	21	6	38.F	33.F	-1.730	5013.	13.637
APR	7.92157	21	14	80.F	62.F	33.024	0.000					0.000	4725.	13.637
MAY	10.49622	10	14	87.F	68.F	37.916	0.000					0.000	4812.	13.637
JUN	13.25140	30	14	91.F	74.F	40.430	0.000					0.000	4826.	13.637
JUL	14.51261	13	14	90.F	73.F	42.417	0.000					0.000	4711.	13.637
AUG	16.16099	18	14	93.F	72.F	43.749	0.000					0.000	5013.	13.637
SEP	14.58331	7	13	82.F	65.F	41.812	0.000					0.000	4725.	13.637
OCT	12.71041	14	14	75.F	61.F	38.581	0.000					0.000	4711.	13.637
NOV	10.02704	2	14	77.F	70.F	36.445	0.000					0.000	4624.	13.637
DEC	7.99638	2	14	64.F	53.F	32.338	0.000					0.000	4812.	13.637

TOTAL	126.476						-0.375						57132.	
MAX						43.749						-3.249		13.637

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSDXHT WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

MONTH	ZONE COIL COOLING ENERGY (MBTU)	MAXIMUM ZONE COIL COOLING LOAD (KBTU/HR)	ZONE COIL HEATING ENERGY (MBTU)	MAXIMUM ZONE COIL HEATING LOAD (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING LOAD (KBTU/HR)	PRE-HEAT COIL ENERGY (MBTU)	MAXIMUM PRE-HEAT COIL LOAD (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	-0.10418	-2.105	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	-0.20847	-3.249	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	-0.06263	-1.730	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		-0.375		0.000	
MAX		0.000		0.000		-3.249		0.000

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOC3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-K SPACE TEMPERATURE SUMMARY OSDXHT WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL	COOLING	HEATING	FAN ON	FAN OFF	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	
	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	
JAN	74.15	74.30	72.94	74.15	0.00	-42.79	-42.79	0.00	185.63	1326.57	-0.00002
FEB	74.10	74.19	72.91	74.10	0.00	-40.87	-40.87	0.00	253.13	1144.49	-0.00006
MAR	74.27	74.41	72.95	74.27	0.00	-33.77	-33.77	0.00	100.98	1046.77	-0.00004
APR	74.48	74.56		74.48	0.00	-21.58	-21.58	0.00		649.89	0.00010
MAY	74.65	74.65		74.65	0.00	-12.37	-12.37	0.00		436.12	0.00066
JUN	74.84	74.84		74.84	0.00	-2.63	-2.63	0.00		212.96	0.00254
JUL	74.89	74.89		74.89	0.00	0.58	0.58	0.00		169.67	0.00319
AUG	74.99	74.99		74.99	0.00	-1.50	-1.50	0.00		193.28	0.00371
SEP	74.93	74.93		74.93	0.00	-7.94	-7.94	0.00		259.54	0.00236
OCT	74.79	74.79		74.79	0.00	-17.70	-17.70	0.00		553.23	0.00060
NOV	74.64	74.64		74.64	0.00	-28.42	-28.42	0.00		853.02	0.00028
DEC	74.49	74.51		74.49	0.00	-38.95	-38.95	0.00		1207.38	-0.00005
ANNUAL	74.61	74.66	72.93	74.61	0.00	-20.56	-20.56	0.00	539.74	8052.93	0.00111

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-F ZONE DEMAND SUMMARY IN OSDXHT FOR OLDXHT WEATHER FILE- NEWARK, NJ

- - - DEMANDS - - - - BASEBOARDS - - - - TEMPERATURES - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	4.30086	-1.720	-0.10418	-2.105	75.3	72.9	0	0
FEB	3.73289	-1.690	-0.20847	-3.249	75.3	72.8	0	0
MAR	4.94455	-1.548	-0.06263	-1.730	75.4	72.9	0	0
APR	5.30856	-1.001	0.00000	0.000	75.5	73.2	0	0
MAY	6.90018	-0.242	0.00000	0.000	75.7	74.1	0	0
JUN	9.41340	0.000	0.00000	0.000	75.8	74.2	0	0
JUL	10.56290	0.000	0.00000	0.000	75.9	74.3	0	0
AUG	12.17193	0.000	0.00000	0.000	75.9	74.4	0	0
SEP	10.82609	0.000	0.00000	0.000	75.9	74.3	0	0
OCT	8.91010	0.000	0.00000	0.000	75.8	74.3	0	0
NOV	6.55245	-0.159	0.00000	0.000	75.7	74.1	0	0
DEC	5.26215	-0.974	0.00000	0.000	75.5	73.7	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR OSDXNOHT WEATHER FILE- NEWARK, NJ

- - - - - C O O L I N G - - - - -							- - - - - H E A T I N G - - - - -					- - - E L E C - - -		
MONTH	COOLING	TIME		DRY-	WET-	MAXIMUM	HEATING	TIME		DRY-	WET-	MAXIMUM	ELEC-	MAXIMUM
	ENERGY	OF MAX		BULB	BULB	COOLING		ENERGY	OF MAX		BULB	BULB	HEATING	TRICAL
	(MBTU)	DY	HR	TEMP	TEMP	LOAD	(MBTU)	DY	HR	TEMP	TEMP	LOAD	ENERGY	LOAD
						(KBTU/HR)						(KBTU/HR)	(KWH)	(KW)
JAN	14.36400	25	14	52.F	41.F	50.562	0.000					0.000	7287.	20.697
FEB	12.83054	11	14	52.F	50.F	50.644	0.000					0.000	6586.	20.697
MAR	16.48144	15	15	65.F	58.F	53.329	0.000					0.000	7593.	20.697
APR	17.45968	22	14	68.F	60.F	56.450	0.000					0.000	7155.	20.697
MAY	20.68633	10	14	87.F	68.F	61.186	0.000					0.000	7287.	20.697
JUN	23.55266	14	14	88.F	74.F	63.584	0.000					0.000	7308.	20.697
JUL	24.38587	13	14	90.F	73.F	65.283	0.000					0.000	7133.	20.697
AUG	26.03597	18	14	93.F	72.F	66.099	0.000					0.000	7593.	20.697
SEP	23.36196	20	14	83.F	72.F	64.302	0.000					0.000	7155.	20.697
OCT	20.90982	21	14	68.F	60.F	60.739	0.000					0.000	7133.	20.697
NOV	17.93601	2	14	77.F	70.F	60.514	0.000					0.000	7002.	20.697
DEC	16.11394	2	14	64.F	53.F	54.170	0.000					0.000	7287.	20.697
TOTAL	234.119						0.000						86517.	
MAX						66.099						0.000		20.697

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR OSDXNOHT WEATHER FILE- NEWARK, NJ

- - ZONE COOLING - - - - ZONE HEATING - - - - BASEBOARDS - - - - - PRE - HEAT - - -

	ZONE COIL	MAXIMUM	ZONE COIL	MAXIMUM	BASEBOARD	MAXIMUM	PRE-HEAT	MAXIMUM
	COOLING	ZONE COIL	COIL	ZONE COIL	HEATING	BASEBOARD	COIL	PRE-HEAT
	ENERGY	LOAD	HEATING	HEATING	ENERGY	LOAD	ENERGY	LOAD
MONTH	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)	(MBTU)	(KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
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TOTAL	0.000		0.000		0.000		0.000	
MAX		0.000		0.000		0.000		0.000

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-K SPACE TEMPERATURE SUMMARY

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 OSDXNOHT

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

MONTH	A V E R A G E S P A C E T E M P					AVERAGE TEMPERATURE DIFFERENCE			SUMMED TEMP DIFFERENCE		HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
	ALL HOURS	COOLING HOURS	HEATING HOURS	FAN ON HOURS	FAN OFF HOURS	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	BETWEEN OUTDOOR& ROOM AIR	
	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	
JAN	74.60	74.60		74.60	0.00	-43.24	-43.24	0.00		1340.47	-0.00002
FEB	74.59	74.59		74.59	0.00	-41.37	-41.37	0.00		1158.46	-0.00005
MAR	74.69	74.69		74.69	0.00	-34.19	-34.19	0.00		1059.80	-0.00004
APR	74.76	74.76		74.76	0.00	-21.86	-21.86	0.00		657.86	0.00010
MAY	74.86	74.86		74.86	0.00	-12.58	-12.58	0.00		440.84	0.00066
JUN	75.00	75.00		75.00	0.00	-2.79	-2.79	0.00		214.41	0.00253
JUL	75.00	75.00		75.00	0.00	0.47	0.47	0.00		169.89	0.00319
AUG	75.07	75.07		75.07	0.00	-1.58	-1.58	0.00		194.01	0.00370
SEP	75.00	75.00		75.00	0.00	-8.01	-8.01	0.00		261.06	0.00236
OCT	74.87	74.87		74.87	0.00	-17.78	-17.78	0.00		555.71	0.00060
NOV	74.78	74.78		74.78	0.00	-28.55	-28.55	0.00		856.88	0.00028
DEC	74.68	74.68		74.68	0.00	-39.13	-39.13	0.00		1212.97	-0.00005
ANNUAL	74.83	74.83	0.00	74.83	0.00	-20.78	-20.78	0.00	0.00	8122.36	0.00111

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- SS-F ZONE DEMAND SUMMARY IN

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 0SDXNOHT FOR OLDXONLY

DOE-2.1D 7/ 2/1996 11: 9:52 SDL RUN 1
 FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

- - - DEMANDS - - - - BASEBOARDS - - - - TEMPERATURES - - - - LOADS NOT MET - -

MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	9.40461	-0.585	0.00000	0.000	75.6	74.1	0	0
FEB	8.52285	-0.699	0.00000	0.000	75.6	74.0	0	0
MAR	11.21039	-0.276	0.00000	0.000	75.7	74.1	0	0
APR	12.09204	-0.049	0.00000	0.000	75.8	74.2	0	0
MAY	14.96230	0.000	0.00000	0.000	75.8	74.3	0	0
JUN	17.82047	0.000	0.00000	0.000	75.9	74.4	0	0
JUL	18.48841	0.000	0.00000	0.000	76.0	74.5	0	0
AUG	20.07511	0.000	0.00000	0.000	76.0	74.4	0	0
SEP	17.75377	0.000	0.00000	0.000	75.9	74.4	0	0
OCT	15.23885	0.000	0.00000	0.000	75.8	74.3	0	0
NOV	12.51310	0.000	0.00000	0.000	75.8	74.2	0	0
DEC	10.74324	-0.172	0.00000	0.000	75.7	74.1	0	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
STM-BOILER	869.3	100.0
DHW-HEATER	0.0	0.0
	=====	=====
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	16276.7	100.0
	=====	=====
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	26099.9	100.0
	=====	=====
LOAD SATISFIED	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

ENTTECH ENGINEERING
READING, PA 19603
RS_1 - HOURLY-REPORT

BZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:44:58 SDL RUN 1
PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

PAGE 1- 1

MMDDHH	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (JAN)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (FEB)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	4606.056	2345.709	4937.974	3368.748	12332.442	0.178	0.889	336.118	501.509
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5575.751	2839.543	5977.548	4077.958	14928.747	0.215	1.076	406.879	607.090
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (APR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAY)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.094	0.468	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (JUN)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	5333.328	2716.085	5717.655	3900.655	14279.671	0.000	0.000	389.189	580.694
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (JUL)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.000	0.000	353.808	527.904
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200

343
EXISTING
ON PEAK

	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)
MONTHLY SUMMARY (AUG)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	5575.751	2839.543	5977.548	4077.958	14928.747	0.000	0.000	406.879	607.090
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (SEP)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.000	0.000	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (OCT)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.103	0.515	353.808	527.904
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (NOV)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.187	0.936	353.808	527.904
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (DEC)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
YEARLY SUMMARY									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	61090.844	31111.520	65493.133	44680.230	163567.141	1.367	6.833	4457.981	6651.591
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:44:58 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOCA3 - DX COOL W/HW & PER HW - .1BTUH
 REPORT- PS-B MONTHLY PEAK AND TOTAL ENERGY USE WEATHER FILE- NEWARK, NJ

MO	UTILITY-	ELECTRICITY	FUEL-OIL	NATURAL-GAS
	TOTAL (MBTU)	2153.016	287.883	0.000
JAN	PEAK (KBTU)	5076.708	767.666	0.000
	DY/HR	13/14	5/20	31/24
	TOTAL (MBTU)	1951.146	248.988	0.000
FEB	PEAK (KBTU)	5085.388	764.186	0.000
	DY/HR	15/14	20/ 3	28/24
	TOTAL (MBTU)	2249.282	217.413	0.000
MAR	PEAK (KBTU)	5114.029	709.479	0.000
	DY/HR	16/14	5/ 1	31/24
	TOTAL (MBTU)	2154.637	82.869	0.000
APR	PEAK (KBTU)	5172.894	626.246	0.000
	DY/HR	21/14	9/ 4	30/ 1
	TOTAL (MBTU)	2219.887	13.871	0.000
MAY	PEAK (KBTU)	5229.586	356.551	0.000
	DY/HR	10/14	4/ 2	31/ 1
	TOTAL (MBTU)	2223.483	0.000	0.000
JUN	PEAK (KBTU)	5290.973	0.000	0.000
	DY/HR	13/14	30/ 1	30/ 1
	TOTAL (MBTU)	2217.316	0.000	0.000
JUL	PEAK (KBTU)	5249.647	0.000	0.000
	DY/HR	13/13	31/ 1	31/ 1
	TOTAL (MBTU)	2308.327	0.000	0.000
AUG	PEAK (KBTU)	5269.803	0.000	0.000
	DY/HR	18/14	31/ 1	31/ 1
	TOTAL (MBTU)	2174.473	0.000	0.000
SEP	PEAK (KBTU)	5198.902	0.000	0.000
	DY/HR	7/14	30/ 1	30/ 1
	TOTAL (MBTU)	2173.409	24.376	0.000
OCT	PEAK (KBTU)	5158.363	469.762	0.000
	DY/HR	14/14	25/ 6	31/24
	TOTAL (MBTU)	2108.344	139.934	0.000
NOV	PEAK (KBTU)	5156.199	647.688	0.000
	DY/HR	2/14	25/ 6	30/24
	TOTAL (MBTU)	2166.566	274.207	0.000
DEC	PEAK (KBTU)	5098.862	721.583	0.000
	DY/HR	2/14	24/13	31/24
	ONE YEAR	26099.888	1289.541	0.000
	USE/PEAK	5290.973	767.666	0.000

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 7/ 2/1996 10:44:58 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
STM-BOILER	869.3	100.0
DHW-HEATER	0.0	0.0
	-----	-----
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	16276.7	100.0
	-----	-----
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	26099.9	100.0
	-----	-----
LOAD SATISFIED	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:44:58 PDL RUN 1
 PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

ENTECH ENGINEERING
READING, PA 19603
RP_1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:44:58 PDL RUN 1
FIMOCAS - DX COOL W/HW & PER HW - .1BTUH

PAGE 1- 1

MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL BR ELECTRIC USE BTU/HR	STM-BOIL BR FUEL USE BTU/HR
	---- (3)	---- (18)	---- (3)	---- (4)
MONTHLY SUMMARY (JAN)				
MN	937605.	583796.	515.	9936.
MX	1082899.	583796.	12991.	759552.
SM	256205232.	147116464.	2475849.	81060664.
AV	1016687.	583796.	9825.	321669.
MONTHLY SUMMARY (FEB)				
MN	928071.	583796.	515.	9936.
MX	1088467.	583796.	12991.	658489.
SM	233673600.	133105368.	2016624.	52371964.
AV	1024884.	583796.	8845.	229702.
MONTHLY SUMMARY (MAR)				
MN	957016.	583796.	515.	9936.
MX	1122546.	583796.	12991.	674536.
SM	287182592.	161127568.	2031500.	54446080.
AV	1040517.	583796.	7361.	197268.
MONTHLY SUMMARY (APR)				
MN	966029.	583796.	515.	9936.
MX	1183155.	583796.	12991.	488100.
SM	268408896.	147116464.	693315.	15506258.
AV	1065115.	583796.	2751.	61533.
MONTHLY SUMMARY (MAY)				
MN	985677.	583796.	0.	0.
MX	1238328.	583796.	12991.	257973.
SM	275527424.	147116464.	116774.	2262290.
AV	1093363.	583796.	463.	8977.
MONTHLY SUMMARY (JUN)				
MN	1016320.	583796.	0.	0.
MX	1304448.	583796.	0.	0.
SM	298948832.	154122016.	0.	0.
AV	1132382.	583796.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	1026370.	583796.	0.	0.
MX	1258694.	583796.	0.	0.
SM	274606400.	140110912.	0.	0.
AV	1144193.	583795.	0.	0.

ENTECH ENGINEERING
READING, PA 19603
RP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:44:58 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

PAGE 2- 1

	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL BR ELECTRIC USE BTU/HR	STM-BOIL BR FUEL USE BTU/HR
	----(3)	----(18)	----(3)	----(4)
MONTHLY SUMMARY (AUG)				
MN	1013925.	583796.	0.	0.
MX	1280765.	583796.	0.	0.
SM	315750784.	161127568.	0.	0.
AV	1144025.	583796.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	993271.	583796.	0.	0.
MX	1207949.	583796.	0.	0.
SM	276855072.	147116464.	0.	0.
AV	1098631.	583796.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	975607.	583796.	0.	0.
MX	1167410.	583796.	12991.	324996.
SM	255514720.	140110912.	241270.	4736180.
AV	1064645.	583795.	1005.	19734.
MONTHLY SUMMARY (NOV)				
MN	963000.	583796.	515.	9936.
MX	1164715.	583796.	12991.	558733.
SM	250589440.	140110912.	1249340.	30270674.
AV	1044123.	583795.	5206.	126128.
MONTHLY SUMMARY (DEC)				
MN	945033.	583796.	515.	9936.
MX	1107379.	583796.	12991.	717930.
SM	257862176.	147116464.	2506830.	71439856.
AV	1023263.	583796.	9948.	283492.
YEARLY SUMMARY				
MN	928071.	583796.	0.	0.
MX	1304448.	583796.	12991.	759552.
SM	3251125248.	1765397376.	11331503.	312093952.
AV	1075108.	583795.	3747.	103206.

MMDDHH	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)
MONTHLY SUMMARY (JAN)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9939.382	5061.797	10655.630	7269.405	26612.115	0.384	1.919	725.307	1082.203
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (FEB)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	8969.687	4567.963	9616.056	6560.194	24015.811	0.346	1.732	654.545	976.622
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (APR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAY)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9939.382	5061.797	10655.630	7269.404	26612.115	0.187	0.936	725.307	1082.203
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (JUN)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	9212.109	4691.421	9875.950	6737.497	24664.885	0.000	0.000	672.235	1003.018
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (JUL)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	10181.806	5185.255	10915.524	7446.708	27261.189	0.000	0.000	742.997	1108.599
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200

CAB

Ex-5-16
 102-8-111

1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (AUG)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 9454.534	4814.880	10135.844	6914.799	25313.963	0.000	0.000	689.926	1029.413
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (SEP)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 9454.534	4814.880	10135.844	6914.800	25313.961	0.000	0.000	689.926	1029.413
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (OCT)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 10181.806	5185.255	10915.524	7446.708	27261.191	0.197	0.983	742.997	1108.598
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (NOV)								
MN 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 9696.958	4938.338	10395.737	7092.102	25963.037	0.374	1.872	707.616	1055.808
AV 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (DEC)								
MN 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 9939.382	5061.797	10655.631	7269.405	26612.113	0.384	1.919	725.307	1082.203
AV 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
YEARLY SUMMARY								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 115878.648	59013.141	124229.055	84750.625	310258.313	2.602	13.010	8456.014	12616.906
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	869.3	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	869.3	100.0
TOTAL LOAD ON PLANT	869.3	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	16276.7	100.0
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	26099.9	100.0
LOAD SATISFIED	26099.9	100.0
TOTAL LOAD ON PLANT	26099.9	

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	869.3	869.3	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26099.9	26099.9	0.000	0.000	0

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOCAL3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	43.20	1289.53	0.00
SPACE COOL	7908.29	0.00	0.00
HVAC AUX	4941.25	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	4983.87	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	8224.01	0.00	0.00
	-----	-----	-----
TOTAL	26100.61	1289.53	0.00

TOTAL SITE ENERGY	27389.43 MBTU	213.2 KBTU/SQFT-YR GROSS-AREA	213.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	79667.59 MBTU	620.1 KBTU/SQFT-YR GROSS-AREA	620.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 9.6
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

 MMDDHH HERM-REC HERM-REC STM-BOIL STM-BOIL
 -CHLR -CHLR ER ER
 ELECTRIC CONDENS ELECTRIC FUEL
 USE FAN ELCC USE USE
 BTU/HR BTU/HR BTU/HR BTU/HR

 ---- (3) ----(18) ----(3) ----(4)

MONTHLY SUMMARY (JAN)

MN	535361.	401088.	1605.	31005.
MX	876201.	583796.	12991.	767666.
SM	358254432.	263037744.	6162833.	206822576.
AV	728159.	534630.	12526.	420371.

MONTHLY SUMMARY (FEB)

MN	527142.	394952.	1885.	36397.
MX	875766.	583796.	12991.	764186.
SM	327136096.	239127616.	5541246.	196616144.
AV	736793.	538576.	12480.	442829.

MONTHLY SUMMARY (MAR)

MN	631776.	473001.	731.	14115.
MX	900159.	583796.	12991.	709479.
SM	367624640.	266104240.	5632770.	162967184.
AV	785523.	568599.	12036.	348220.

MONTHLY SUMMARY (APR)

MN	661938.	495478.	515.	9936.
MX	923082.	583796.	12991.	626246.
SM	382968384.	271392160.	2730110.	67362896.
AV	818309.	579898.	5834.	143938.

MONTHLY SUMMARY (MAY)

MN	743947.	556541.	0.	0.
MX	975469.	583796.	12991.	356551.
SM	413771104.	287143520.	561445.	11608750.
AV	840998.	583625.	1141.	23595.

MONTHLY SUMMARY (JUN)

MN	798306.	583796.	0.	0.
MX	1003135.	583796.	0.	0.
SM	396264192.	266210880.	0.	0.
AV	869000.	583796.	0.	0.

MONTHLY SUMMARY (JUL)

MN	804028.	583796.	0.	0.
MX	992180.	583796.	0.	0.
SM	441250368.	294233088.	0.	0.
AV	875497.	583796.	0.	0.

ENTECH ENGINEERING
READING, PA 19603
RP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11: 9:52 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

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	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR
	---- (3)	----(18)	---- (3)	---- (4)
MONTHLY SUMMARY (AUG)				
MN	788823.	583796.	0.	0.
MX	991107.	583796.	0.	0.
SM	405776256.	273216416.	0.	0.
AV	867043.	583796.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	781980.	583796.	0.	0.
MX	948940.	583796.	0.	0.
SM	397793312.	273216416.	0.	0.
AV	849986.	583796.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	683149.	511279.	0.	0.
MX	907671.	583796.	12991.	469762.
SM	415276384.	293634560.	910581.	19639862.
AV	823961.	582608.	1807.	38968.
MONTHLY SUMMARY (NOV)				
MN	626375.	468976.	515.	9936.
MX	922674.	583796.	12991.	647688.
SM	380792512.	274897728.	4323636.	109662880.
AV	793318.	572704.	9008.	228464.
MONTHLY SUMMARY (DEC)				
MN	546128.	409124.	515.	9936.
MX	885942.	583796.	12991.	721583.
SM	370277664.	270221984.	6001262.	202766960.
AV	752597.	549232.	12198.	412128.
YEARLY SUMMARY				
MN	527142.	394952.	0.	0.
MX	1003135.	583796.	12991.	767666.
SM	4657185792.	3272436736.	31863882.	977447296.
AV	811922.	570509.	5555.	170406.

Attachment 8.12
EZDOE ECO Results

ECO-2

ENTECH ENGINEERING

READING, PA 19603

HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC

4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1

FTMOACO - SIM MCA H2O ONLY W/OA SCHD1

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RS_1

1SMCAHUS

2SPERFC

3SPERFC

4SPERFC

ZR

SUPPLY

ELECTRIC

KW

(49)

ZR

SUPPLY

ELECTRIC

KW

(49)

ZR

SUPPLY

ELECTRIC

KW

(49)

ZR

SUPPLY

ELECTRIC

KW

(49)

MONTHLY SUMMARY (JAN)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 1262.789 749.415 749.415 878.909

AV 2.567 1.523 1.523 1.786

MONTHLY SUMMARY (FEB)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 1142.523 676.301 676.301 793.162

AV 2.573 1.523 1.523 1.786

MONTHLY SUMMARY (MAR)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 1383.055 712.858 712.858 836.035

AV 2.955 1.523 1.523 1.786

MONTHLY SUMMARY (APR)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 3758.301 712.858 712.858 836.035

AV 8.031 1.523 1.523 1.786

MONTHLY SUMMARY (MAY)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 5923.082 749.415 749.415 878.909

AV 12.039 1.523 1.523 1.786

MONTHLY SUMMARY (JUN)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 4239.363 694.579 694.579 814.599

AV 9.297 1.523 1.523 1.786

MONTHLY SUMMARY (JUL)

MN 0.000 1.523 1.523 1.786

MX 30.066 1.523 1.523 1.786

SM 4960.957 767.693 767.693 900.346

AV 9.843 1.523 1.523 1.786

MCA SUMMER

SETBACK @

ALL DELX 12

MCA SUMMER
SETBACK @ 30°F

ALL DELX 1 DELSE

	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERFC SUPPLY ELECTRIC KW	3SPERFC SUPPLY ELECTRIC KW	4SPERFC SUPPLY ELECTRIC KW
	----(49)	----(49)	----(49)	----(49)
MONTHLY SUMMARY (AUG)				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	3728.234	712.858	712.858	836.035
AV	7.966	1.523	1.523	1.786
MONTHLY SUMMARY (SEP)				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	3427.570	712.858	712.858	836.035
AV	7.324	1.523	1.523	1.786
MONTHLY SUMMARY (OCT)				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	3066.773	767.693	767.693	900.346
AV	6.085	1.523	1.523	1.786
MONTHLY SUMMARY (NOV)				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	1773.918	731.136	731.136	857.472
AV	3.696	1.523	1.523	1.786
MONTHLY SUMMARY (DEC)				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	1292.855	749.415	749.415	878.909
AV	2.628	1.523	1.523	1.786
YEARLY SUMMARY				
MN	0.000	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	35959.418	8737.077	8737.077	10246.794
AV	6.269	1.523	1.523	1.786

ENTECH ENGINEERING
READING, PA 19603
RS_2 - HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

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MDDH	SSZF2MID	SSFZ3MID	SSZF4MID	OSMCAHUS
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	ZR SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (JAN)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	2702.056	3539.614	4420.291	737.587
AV	5.492	7.194	8.984	1.499
MONTHLY SUMMARY (FEB)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	2343.376	3071.565	3123.672	667.341
AV	5.278	6.918	7.035	1.503
MONTHLY SUMMARY (MAR)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	2725.968	3539.613	2445.894	807.833
AV	5.825	7.563	5.226	1.726
MONTHLY SUMMARY (APR)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	4423.720	5558.070	4037.198	2247.885
AV	9.452	11.876	8.626	4.803
MONTHLY SUMMARY (MAY)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	5547.584	6815.949	7131.401	3652.813
AV	11.276	13.854	14.495	7.424
MONTHLY SUMMARY (JUN)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	3371.592	4153.927	7042.997	3266.458
AV	7.394	9.109	15.445	7.163
MONTHLY SUMMARY (JUL)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	4232.424	5177.781	8015.459	4302.592
AV	8.398	10.273	15.904	8.537

ENTTECH ENGINEERING
READING, PA 19603
RS_2 - HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:53: 7 SDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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	SSZF2MID	SSPF3MID	SSZF4MID	OSMCAHUS ZR
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW
----	(49)	(49)	(49)	(49)
MONTHLY SUMMARY (AUG)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	3610.712	4417.204	7101.933	3810.868
AV	7.715	9.438	15.175	8.143
MONTHLY SUMMARY (SEP)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	3419.416	4212.433	6512.560	2950.349
AV	7.306	9.001	13.916	6.304
MONTHLY SUMMARY (OCT)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	4495.456	5558.070	3889.856	2897.664
AV	8.920	11.028	7.718	5.749
MONTHLY SUMMARY (NOV)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	3610.712	4592.721	2652.175	1229.312
AV	7.522	9.568	5.525	2.561
MONTHLY SUMMARY (DEC)				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	2654.232	3481.108	3477.295	913.203
AV	5.395	7.075	7.068	1.856
YEARLY SUMMARY				
MN	0.000	0.000	0.000	0.000
MX	23.912	29.253	29.469	17.562
SM	43137.242	54118.059	59850.734	27483.906
AV	7.520	9.435	10.434	4.791

MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	-999.0	69.8	-999.0	69.9
MX	75.0	77.6	75.0	77.7
SM	*****	36855.7	*****	36702.7
AV	-907.5	74.9	-907.5	74.6

MONTHLY SUMMARY (FEB)

MN	-999.0	72.6	-999.0	70.7
MX	75.0	78.5	75.0	77.6
SM	*****	33718.5	*****	33416.2
AV	-907.2	75.9	-907.2	75.3

MONTHLY SUMMARY (MAR)

MN	-999.0	74.1	-999.0	73.9
MX	75.0	80.1	75.0	79.9
SM	*****	35946.3	*****	35817.9
AV	-893.4	76.8	-893.4	76.5

MONTHLY SUMMARY (APR)

MN	-999.0	74.4	-999.0	74.2
MX	80.0	84.7	80.0	84.4
SM	*****	36979.7	*****	36921.3
AV	-711.3	79.0	-711.3	78.9

MONTHLY SUMMARY (MAY)

MN	-999.0	74.7	-999.0	75.1
MX	80.0	96.1	80.0	96.0
SM	*****	39403.2	*****	39635.2
AV	-567.4	80.1	-567.4	80.6

MONTHLY SUMMARY (JUN)

MN	-999.0	74.9	-999.0	75.5
MX	80.0	82.5	80.0	83.0
SM	*****	36183.0	*****	36470.4
AV	-665.8	79.3	-665.8	80.0

MONTHLY SUMMARY (JUL)

MN	-999.0	75.1	-999.0	75.9
MX	80.0	82.7	80.0	83.0
SM	*****	40218.2	*****	40483.0
AV	-646.2	79.8	-646.2	80.3

1EXTPER	1EXTPER	1INTPER	1INTPER
---------	---------	---------	---------

THERMOST ZONE	THERMOST ZONE	THERMOST ZONE	THERMOST ZONE
SETPOINT TEMP	SETPOINT TEMP	SETPOINT TEMP	SETPOINT TEMP
F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	-999.0	74.9	-999.0	75.5
MX	80.0	82.6	80.0	82.4
SM	*****	37206.3	*****	37386.3
AV	-713.6	79.5	-713.6	79.3

MONTHLY SUMMARY (SEP)

MN	-999.0	74.8	-999.0	74.9
MX	80.0	82.2	80.0	81.9
SM	*****	37055.3	*****	37081.8
AV	-736.6	79.2	-736.6	79.2

MONTHLY SUMMARY (OCT)

MN	-999.0	74.5	-999.0	74.1
MX	80.0	83.9	80.0	82.3
SM	*****	39951.6	*****	39707.9
AV	-781.0	79.3	-781.7	78.8

MONTHLY SUMMARY (NOV)

MN	-999.0	74.1	-999.0	74.0
MX	80.0	83.0	80.0	83.6
SM	*****	37224.9	*****	37056.3
AV	-866.8	77.6	-866.8	77.2

MONTHLY SUMMARY (DEC)

MN	-999.0	72.7	-999.0	71.6
MX	80.0	81.0	75.0	79.5
SM	*****	37427.9	*****	37338.4
AV	-905.2	76.1	-905.2	75.9

YEARLY SUMMARY

MN	-999.0	69.8	-999.0	69.9
MX	80.0	96.1	80.0	96.0
SM	*****	448170.7	*****	448017.5
AV	-774.5	78.1	-774.6	78.1

MMDDHH 2EXTPER 2EXTPER 2INTPER 2INTPER

THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	72.0	72.2	72.0	72.2
MX	75.0	75.5	75.0	75.6
SM	35445.0	35818.2	35472.0	35835.6
AV	72.0	72.8	72.1	72.8

MONTHLY SUMMARY (FEB)

MN	72.0	72.2	72.0	72.2
MX	75.0	75.1	75.0	76.0
SM	32001.0	32337.8	32046.0	32376.2
AV	72.1	72.8	72.2	72.9

MONTHLY SUMMARY (MAR)

MN	72.0	72.5	72.0	72.5
MX	75.0	79.9	75.0	80.8
SM	33906.0	34308.4	33942.0	34389.8
AV	72.4	73.3	72.5	73.5

MONTHLY SUMMARY (APR)

MN	72.0	72.7	72.0	72.7
MX	75.0	96.9	75.0	98.5
SM	34662.0	37561.9	34665.0	37913.2
AV	74.1	80.3	74.1	81.0

MONTHLY SUMMARY (MAY)

MN	72.0	67.8	72.0	67.9
MX	75.0	102.3	75.0	103.7
SM	36561.0	39161.8	36573.0	39429.4
AV	74.3	79.6	74.3	80.1

MONTHLY SUMMARY (JUN)

MN	72.0	73.5	72.0	73.5
MX	75.0	75.0	75.0	75.1
SM	34161.0	33906.2	34167.0	33916.4
AV	74.9	74.4	74.9	74.4

MONTHLY SUMMARY (JUL)

MN	72.0	73.8	72.0	73.9
MX	75.0	75.0	75.0	75.0
SM	37794.0	37510.9	37794.0	37520.6
AV	75.0	74.4	75.0	74.4

2EXTPER	2EXTPER	2INTPER	2INTPER
THERMOST ZONE	THERMOST ZONE		
SETPOINT TEMP	SETPOINT TEMP		
F	F	F	F

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	72.0	72.8	72.0	72.8
MX	75.0	74.9	75.0	75.0
SM	35019.0	34776.7	35034.0	34791.4
AV	74.8	74.3	74.9	74.3

MONTHLY SUMMARY (SEP)

MN	72.0	71.6	72.0	72.0
MX	75.0	74.6	75.0	74.7
SM	34944.0	34693.5	34968.0	34718.0
AV	74.7	74.1	74.7	74.2

MONTHLY SUMMARY (OCT)

MN	72.0	67.5	72.0	68.5
MX	75.0	89.9	75.0	92.3
SM	37191.0	38152.6	37338.0	38527.4
AV	73.8	75.7	74.1	76.4

MONTHLY SUMMARY (NOV)

MN	72.0	72.6	72.0	72.6
MX	75.0	90.0	75.0	90.7
SM	35124.0	36187.5	35172.0	36425.4
AV	73.2	75.4	73.3	75.9

MONTHLY SUMMARY (DEC)

MN	72.0	72.5	72.0	72.5
MX	75.0	79.3	75.0	80.5
SM	35547.0	35932.1	35568.0	35995.9
AV	72.3	73.0	72.3	73.2

YEARLY SUMMARY

MN	72.0	67.5	72.0	67.9
MX	75.0	102.3	75.0	103.7
SM	422355.0	430347.5	422739.0	431839.3
AV	73.6	75.0	73.7	75.3

MMDDHH 3EXTPER 3EXTPER 3INTPER 3INTPER

THERMOST ZONE	THERMOST ZONE
SETPOINT TEMP	SETPOINT TEMP
F F	F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	72.0	72.2	72.0	72.2
MX	75.0	75.5	75.0	75.6
SM	35445.0	35818.2	35472.0	35835.6
AV	72.0	72.8	72.1	72.8

MONTHLY SUMMARY (FEB)

MN	72.0	72.2	72.0	72.2
MX	75.0	75.1	75.0	76.0
SM	32001.0	32337.8	32046.0	32376.2
AV	72.1	72.8	72.2	72.9

MONTHLY SUMMARY (MAR)

MN	72.0	72.5	72.0	72.5
MX	75.0	79.9	75.0	80.8
SM	33906.0	34308.3	33942.0	34389.8
AV	72.4	73.3	72.5	73.5

MONTHLY SUMMARY (APR)

MN	72.0	72.7	72.0	72.7
MX	75.0	96.9	75.0	98.5
SM	34662.0	37561.8	34665.0	37913.2
AV	74.1	80.3	74.1	81.0

MONTHLY SUMMARY (MAY)

MN	72.0	67.8	72.0	67.9
MX	75.0	102.3	75.0	103.7
SM	36561.0	39161.9	36573.0	39429.4
AV	74.3	79.6	74.3	80.1

MONTHLY SUMMARY (JUN)

MN	72.0	73.5	72.0	73.5
MX	75.0	75.0	75.0	75.1
SM	34161.0	33906.2	34167.0	33916.4
AV	74.9	74.4	74.9	74.4

MONTHLY SUMMARY (JUL)

MN	72.0	73.8	72.0	73.9
MX	75.0	75.0	75.0	75.0
SM	37794.0	37510.9	37794.0	37520.6
AV	75.0	74.4	75.0	74.4

3EXTPER 3EXTPER 3INTPER 3INTPER

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	72.0	72.8	72.0	72.8
MX	75.0	74.9	75.0	75.0
SM	35019.0	34776.7	35034.0	34791.4
AV	74.8	74.3	74.9	74.3

MONTHLY SUMMARY (SEP)

MN	72.0	71.6	72.0	72.0
MX	75.0	74.6	75.0	74.7
SM	34944.0	34693.5	34968.0	34718.0
AV	74.7	74.1	74.7	74.2

MONTHLY SUMMARY (OCT)

MN	72.0	67.5	72.0	68.5
MX	75.0	89.9	75.0	92.3
SM	37191.0	38152.5	37338.0	38527.4
AV	73.8	75.7	74.1	76.4

MONTHLY SUMMARY (NOV)

MN	72.0	72.6	72.0	72.6
MX	75.0	90.0	75.0	90.7
SM	35124.0	36187.2	35172.0	36425.4
AV	73.2	75.4	73.3	75.9

MONTHLY SUMMARY (DEC)

MN	72.0	72.5	72.0	72.5
MX	75.0	79.3	75.0	80.5
SM	35547.0	35932.0	35568.0	35995.9
AV	72.3	73.0	72.3	73.2

YEARLY SUMMARY

MN	72.0	67.5	72.0	67.9
MX	75.0	102.3	75.0	103.7
SM	422355.0	430347.1	422739.0	431839.3
AV	73.6	75.0	73.7	75.3

MMDDHH 4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	72.0	72.1	72.0	72.2
MX	72.0	72.9	72.0	73.0
SM	35424.0	35761.0	35424.0	35763.6
AV	72.0	72.7	72.0	72.7

MONTHLY SUMMARY (FEB)

MN	72.0	72.2	72.0	72.2
MX	72.0	73.5	72.0	73.9
SM	31968.0	32276.7	31968.0	32282.9
AV	72.0	72.7	72.0	72.7

MONTHLY SUMMARY (MAR)

MN	72.0	72.5	72.0	72.5
MX	75.0	76.8	75.0	77.3
SM	33738.0	34102.0	33753.0	34123.1
AV	72.1	72.9	72.1	72.9

MONTHLY SUMMARY (APR)

MN	72.0	72.6	72.0	72.6
MX	75.0	90.4	75.0	91.4
SM	34434.0	35745.0	34461.0	35950.4
AV	73.6	76.4	73.6	76.8

MONTHLY SUMMARY (MAY)

MN	72.0	64.0	72.0	64.3
MX	75.0	98.4	75.0	99.5
SM	36351.0	37680.9	36384.0	37852.7
AV	73.9	76.6	74.0	76.9

MONTHLY SUMMARY (JUN)

MN	72.0	72.3	72.0	72.3
MX	75.0	75.0	75.0	75.1
SM	34017.0	33852.2	34050.0	33866.7
AV	74.6	74.2	74.7	74.3

MONTHLY SUMMARY (JUL)

MN	72.0	73.1	72.0	73.2
MX	75.0	75.0	75.0	75.1
SM	37767.0	37490.9	37770.0	37501.8
AV	74.9	74.4	74.9	74.4

ENTECH ENGINEERING
READING, PA 19603
RS_6 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 6/26/1996 14:53: 7 SDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1

PAGE 2- 1

4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST ZONE THERMOST ZONE
SETPOINT TEMP SETPOINT TEMP
F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	72.0	71.2	72.0	71.4
MX	75.0	74.9	75.0	75.0
SM	34881.0	34701.0	34905.0	34721.1
AV	74.5	74.1	74.6	74.2

MONTHLY SUMMARY (SEP)

MN	72.0	69.5	72.0	69.9
MX	75.0	74.7	75.0	74.8
SM	34650.0	34547.6	34698.0	34589.0
AV	74.0	73.8	74.1	73.9

MONTHLY SUMMARY (OCT)

MN	72.0	62.5	72.0	63.5
MX	75.0	82.6	75.0	83.8
SM	36774.0	36757.6	36882.0	37036.8
AV	73.0	72.9	73.2	73.5

MONTHLY SUMMARY (NOV)

MN	72.0	72.6	72.0	72.5
MX	75.0	84.9	75.0	85.3
SM	34740.0	35345.7	34764.0	35386.3
AV	72.4	73.6	72.4	73.7

MONTHLY SUMMARY (DEC)

MN	72.0	72.5	72.0	72.5
MX	75.0	76.0	75.0	76.7
SM	35448.0	35790.5	35460.0	35803.4
AV	72.0	72.7	72.1	72.8

YEARLY SUMMARY

MN	72.0	62.5	72.0	63.5
MX	75.0	98.4	75.0	99.5
SM	420192.0	424051.1	420519.0	424877.6
AV	73.3	73.9	73.3	74.1

MMDDHH 2MIDL 2MIDL 3MIDL 3MIDL

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	-999.0	74.7	-999.0	74.8
MX	80.0	81.2	80.0	81.2
SM	*****	38946.3	*****	38976.9
AV	-751.6	79.2	-734.1	79.2

MONTHLY SUMMARY (FEB)

MN	-999.0	74.9	-999.0	74.9
MX	80.0	81.2	80.0	81.2
SM	*****	35156.7	*****	35181.8
AV	-761.5	79.2	-744.4	79.2

MONTHLY SUMMARY (MAR)

MN	-999.0	74.9	-999.0	75.0
MX	80.0	81.6	80.0	81.6
SM	*****	37064.1	*****	37082.3
AV	-736.7	79.2	-720.5	79.2

MONTHLY SUMMARY (APR)

MN	-999.0	75.1	-999.0	75.1
MX	80.0	85.7	80.0	85.7
SM	*****	37451.0	*****	37460.7
AV	-572.9	80.0	-561.4	80.0

MONTHLY SUMMARY (MAY)

MN	-999.0	75.1	-999.0	75.2
MX	80.0	97.1	80.0	97.1
SM	*****	39786.8	*****	39796.0
AV	-490.6	80.9	-488.4	80.9

MONTHLY SUMMARY (JUN)

MN	-999.0	75.3	-999.0	75.3
MX	80.0	82.0	80.0	82.0
SM	*****	36459.3	*****	36458.3
AV	-665.8	80.0	-663.5	80.0

MONTHLY SUMMARY (JUL)

MN	-999.0	75.4	-999.0	75.4
MX	80.0	82.2	80.0	82.1
SM	*****	40401.7	*****	40399.1
AV	-620.5	80.2	-620.5	80.2

	2MIDL	2MIDL	3MIDL	3MIDL
THERMOST ZONE				
SETPOINT TEMP				
F	F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	-999.0	75.3	-999.0	75.3
MX	80.0	82.0	80.0	82.0
SM	*****	37415.9	*****	37419.0
AV	-651.4	79.9	-651.4	80.0

MONTHLY SUMMARY (SEP)

MN	-999.0	75.2	-999.0	75.2
MX	80.0	81.9	80.0	81.9
SM	*****	37350.1	*****	37360.1
AV	-669.8	79.8	-667.4	79.8

MONTHLY SUMMARY (OCT)

MN	-999.0	75.1	-999.0	75.1
MX	80.0	83.8	80.0	83.9
SM	*****	40268.3	*****	40288.4
AV	-596.9	79.9	-592.6	79.9

MONTHLY SUMMARY (NOV)

MN	-999.0	74.9	-999.0	75.0
MX	80.0	85.0	80.0	85.1
SM	*****	38220.5	*****	38242.4
AV	-660.0	79.6	-646.5	79.7

MONTHLY SUMMARY (DEC)

MN	-999.0	74.8	-999.0	74.8
MX	80.0	81.4	80.0	81.4
SM	*****	38965.3	*****	38994.3
AV	-756.0	79.2	-738.4	79.3

YEARLY SUMMARY

MN	-999.0	74.7	-999.0	74.8
MX	80.0	97.1	80.0	97.1
SM	*****	457486.1	*****	457659.3
AV	-660.1	79.8	-651.4	79.8

MMDDHH	4MIDL	4MIDL	0INTEKTP	0INTEKTP
			ER	ER
	THERMOST	ZONE	THERMOST	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	-999.0	69.1	-999.0	69.6
MX	72.0	75.3	75.0	79.0
SM	*****	35465.8	*****	36327.0
AV	-672.5	72.1	-907.6	73.8

MONTHLY SUMMARY (FEB)

MN	-999.0	68.7	-999.0	69.7
MX	75.0	75.3	75.0	79.6
SM	*****	32080.3	*****	33099.5
AV	-743.3	72.3	-907.3	74.5

MONTHLY SUMMARY (MAR)

MN	-999.0	70.4	-999.0	72.9
MX	75.0	77.4	75.0	79.6
SM	*****	34170.5	*****	35655.5
AV	-809.0	73.0	-893.5	76.2

MONTHLY SUMMARY (APR)

MN	-999.0	71.7	-999.0	74.1
MX	75.0	80.7	80.0	85.6
SM	*****	35104.3	*****	37031.0
AV	-684.7	75.0	-704.3	79.1

MONTHLY SUMMARY (MAY)

MN	-999.0	73.3	-999.0	74.5
MX	75.0	93.6	80.0	98.0
SM	*****	37662.0	*****	39842.6
AV	-470.7	76.5	-543.3	81.0

MONTHLY SUMMARY (JUN)

MN	-999.0	74.3	-999.0	74.9
MX	75.0	79.5	80.0	86.3
SM	*****	34644.7	*****	36727.8
AV	-436.1	76.0	-559.4	80.5

MONTHLY SUMMARY (JUL)

MN	-999.0	74.4	-999.0	75.1
MX	75.0	79.5	80.0	87.0
SM	*****	38382.7	*****	40806.6
AV	-419.4	76.2	-474.9	81.0

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4MIDL 4MIDL 0INTEXTP 0INTEXTP
      ER      ER
THERMOST ZONE THERMOST ZONE
SETPOINT TEMP SETPOINT TEMP
F          F          F          F

----( 7) ----( 6) ----( 7) ----( 6)

MONTHLY SUMMARY (AUG)
MN -999.0 74.3 -999.0 75.0
MX 75.0 79.1 80.0 87.0
SM ***** 35527.9 ***** 37666.4
AV -445.9 75.9 -499.2 80.5

MONTHLY SUMMARY (SEP)
MN -999.0 74.0 -999.0 74.8
MX 75.0 78.8 80.0 85.9
SM ***** 35388.4 ***** 37624.8
AV -491.8 75.6 -612.1 80.4

MONTHLY SUMMARY (OCT)
MN -999.0 71.5 -999.0 74.5
MX 75.0 80.1 80.0 87.3
SM ***** 37973.8 ***** 40213.3
AV -717.8 75.3 -646.2 79.8

MONTHLY SUMMARY (NOV)
MN -999.0 70.4 -999.0 73.0
MX 75.0 80.3 80.0 85.0
SM ***** 35265.7 ***** 37389.3
AV -798.0 73.5 -842.1 77.9

MONTHLY SUMMARY (DEC)
MN -999.0 69.5 -999.0 71.9
MX 75.0 76.3 80.0 81.9
SM ***** 35725.7 ***** 37041.3
AV -742.1 72.6 -885.6 75.3

YEARLY SUMMARY
MN -999.0 68.7 -999.0 69.6
MX 75.0 93.6 80.0 98.0
SM ***** 427391.5 ***** 449424.8
AV -619.0 74.5 -705.1 78.4
  
```

DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
AC0 - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)										
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	-	110+	-----	-----	-----	-----	
HW-BOILER	2827		616		634		478		311		139		41		28		9		4		1			5088	3096.9	0.0	202.4	4504.8
	2827		616		634		478		311		139		41		28		9		4		1							
HERM-CENT-CHLR	1286		825		408		207		244		352		266		81		3		0		0			3672	8366.2	0.0	1972.7	0.0
	1286		825		408		207		244		352		266		81		3		0		0							
COOLING-TWR	1660		651		227		116		89		77		68		102		125		115		442			3672	10338.9	0.0	807.7	0.0
	1660		651		227		116		89		77		68		102		125		115		442							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
FTWOAC0 - SIM MCA H2O ONLY W/OA SCHED1
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3096.9	100.0
	-----	-----
LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8366.2	100.0
	-----	-----
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	21337.4	100.0
	-----	-----
LOAD SATISFIED	21337.4	100.0
TOTAL LOAD ON PLANT	21337.3	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOR-2.1D 6/26/1996 14:53: 7 PDL RUN 1
SIM MCA H2O ONLY W/OA SCHED1

WEATHER FILE- NEWARK, NJ

(CONTINUED)

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	0
ELECTRICAL LOADS	21337.3	21337.4	0.000	0.000	0

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

BZDOR - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 6/26/1996 14:53: 7 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS	SIZE OPER (MBTU) HRS
HW-BOILER	0.148	4.101	2 20 3	4.101 5088				
HERM-CENT-CHLR	0.292	7.613	6 13 15	7.800 3672				
COOLING-TWR	0.296	9.214	6 13 15	2.379 14688				

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	202.45	4504.78
SPACE COOL	2780.41	0.00
HVAC AUX	3574.63	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.50	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
	-----	-----
TOTAL	21337.36	4504.78

TOTAL SITE ENERGY	25842.22 MBTU	78.4 KBTU/SQFT-YR GROSS-AREA	78.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	68581.08 MBTU	208.1 KBTU/SQFT-YR GROSS-AREA	208.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN BLEC BTU/HR	COOLING- TWR PUMP BLEC BTU/HR
	---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	4487600.	838479.	77.3	55.3	1950.0	5.5	140410.	90465.
SM	169750432.	65228444.	16614.1	13603.2	491400.0	261.8	28844272.	22797268.
AV	345021.	132578.	33.8	27.6	998.8	0.5	58627.	46336.
MONTHLY SUMMARY (JUN)								
MN	316498.	149259.	65.0	53.9	1950.0	0.6	106748.	90465.
MX	4448608.	852782.	80.0	55.3	1950.0	5.5	140410.	90465.
SM	581556736.	179042656.	31407.7	24709.3	889200.1	817.5	58399344.	41252200.
AV	1275344.	392637.	68.9	54.2	1950.0	1.8	128069.	90465.
MONTHLY SUMMARY (JUL)								
MN	316498.	149259.	65.0	53.9	1950.0	0.6	113014.	90465.
MX	4115743.	783141.	79.6	55.2	1950.0	5.1	140410.	90465.
SM	783858752.	223227600.	35653.1	27358.6	982800.1	1074.1	66740936.	45594536.
AV	1555275.	442912.	70.7	54.3	1950.0	2.1	132422.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)							
MN 316498.	149259.	64.9	53.9	1950.0	0.6	107897.	90465.
MX 4499745.	878697.	83.6	55.3	1950.0	5.6	140410.	90465.
SM 598733184.	186173856.	33142.3	25360.1	912600.1	843.4	60455884.	42337780.
AV 1279344.	397807.	70.8	54.2	1950.0	1.8	129179.	90465.
MONTHLY SUMMARY (SEP)							
MN 316498.	149259.	65.0	53.9	1950.0	0.6	106748.	90465.
MX 3866649.	757026.	78.0	55.1	1950.0	4.8	140410.	90465.
SM 416302656.	150314016.	32075.6	25297.6	912600.1	619.7	57864784.	42337784.
AV 889536.	321184.	68.5	54.1	1950.0	1.3	123643.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 2677554.	567950.	70.1	54.7	1950.0	3.4	140410.	90465.
SM 111269232.	48921036.	16451.1	13583.1	491400.0	185.2	28117416.	22797272.
AV 220772.	97066.	32.6	27.0	975.0	0.4	55789.	45233.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 4499745.	878697.	83.6	55.3	1950.0	5.6	140410.	90465.
SM 2661470976.	852907584.	165343.9	129911.9	4680000.5	3801.9	300422624.	217116832.
AV 463994.	148694.	28.8	22.6	815.9	0.7	52375.	37852.

MMDDHH	HW-BOILER R LOAD BTU/HR	HW-BOILER R ELECTRIC USE BTU/HR	HW-BOILER R FUEL USE BTU/HR	HW-BOILER R CAPACITY RUNNING BTU/HR
	----(1)	----(3)	----(4)	----(7)
MONTHLY SUMMARY (JAN)				
MN	149887.	13190.	235139.	4100792.
MX	3799679.	90217.	4616031.	4100792.
SM	679282560.	38912236.	959069696.	2017589120.
AV	1380656.	79090.	1949329.	4100791.
MONTHLY SUMMARY (FEB)				
MN	13589.	1196.	21318.	4100792.
MX	4100792.	90217.	4920951.	4100792.
SM	590047680.	33164520.	830094208.	1820750976.
AV	1328936.	74695.	1869582.	4100791.
MONTHLY SUMMARY (MAR)				
MN	13589.	1196.	21318.	4100792.
MX	2232132.	90217.	2960639.	4100792.
SM	392289056.	28610828.	586235520.	1919170048.
AV	838225.	61134.	1252640.	4100791.
MONTHLY SUMMARY (APR)				
MN	13589.	1196.	21318.	4100792.
MX	1720228.	90217.	2395328.	4100792.
SM	122128672.	9965951.	187781088.	1919170304.
AV	260959.	21295.	401242.	4100791.
MONTHLY SUMMARY (MAY)				
MN	0.	0.	0.	0.
MX	292716.	25759.	459205.	4100792.
SM	13872808.	1220807.	21763304.	984189952.
AV	28197.	2481.	44234.	2000386.
MONTHLY SUMMARY (JUN)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

	HW-BOILE R LOAD BTU/HR ----(1)	HW-BOILE R ELECTRIC USE BTU/HR ----(3)	HW-BOILE R FUEL USE BTU/HR ----(4)	HW-BOILE R CAPACITY RUNNING BTU/HR ----(7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	790137.	69532.	1239547.	4100792.
SM	23044680.	2027932.	16151900.	1033399424.
AV	45724.	4024.	71730.	2050396.
MONTHLY SUMMARY (NOV)				
MN	13589.	1196.	21318.	4100792.
MX	2289986.	90217.	3023764.	4100792.
SM	269184288.	20775456.	407937696.	1968379776.
AV	560801.	43282.	849870.	4100791.
MONTHLY SUMMARY (DEC)				
MN	13589.	1196.	21318.	4100792.
MX	2651084.	90217.	3414244.	4100792.
SM	615147904.	37391884.	881645376.	2017588992.
AV	1250301.	76000.	1791962.	4100791.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	4100792.	90217.	4920951.	4100792.
SM	2704997376.	172069616.	3910678784.	13680238592.
AV	471583.	29998.	681778.	2384979.

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- TION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:53: 7 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT-	FUEL-OIL UNIT-
	3413.00	138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	437963.	8353.
PEAK DEMAND (UNIT/HR)	1457.	33.
TOTAL COST (\$)	43972.25	4928.39
FEB		
ENERGY CONSUMPTION (UNIT/MO)	393296.	6604.
PEAK DEMAND (UNIT/HR)	1457.	35.
TOTAL COST (\$)	40760.73	3896.21
MAR		
ENERGY CONSUMPTION (UNIT/MO)	455580.	4791.
PEAK DEMAND (UNIT/HR)	1457.	21.
TOTAL COST (\$)	45238.93	2826.42
APR		
ENERGY CONSUMPTION (UNIT/MO)	429387.	1519.
PEAK DEMAND (UNIT/HR)	1449.	17.
TOTAL COST (\$)	43288.15	896.48
MAY		
ENERGY CONSUMPTION (UNIT/MO)	536732.	198.
PEAK DEMAND (UNIT/HR)	1943.	3.
TOTAL COST (\$)	55242.44	116.83
JUN		
ENERGY CONSUMPTION (UNIT/MO)	664362.	0.
PEAK DEMAND (UNIT/HR)	2022.	0.
TOTAL COST (\$)	70361.52	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	666001.	0.
PEAK DEMAND (UNIT/HR)	2008.	0.
TOTAL COST (\$)	70081.58	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	697341.	0.
PEAK DEMAND (UNIT/HR)	2009.	0.
TOTAL COST (\$)	72822.00	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	623481.	0.
PEAK DEMAND (UNIT/HR)	1951.	0.
TOTAL COST (\$)	66476.63	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	496446.	310.
PEAK DEMAND (UNIT/HR)	1848.	9.
TOTAL COST (\$)	51533.05	183.03
NOV		
ENERGY CONSUMPTION (UNIT/MO)	414840.	3269.
PEAK DEMAND (UNIT/HR)	1457.	22.
TOTAL COST (\$)	42309.72	1928.80
DEC		
ENERGY CONSUMPTION (UNIT/MO)	436376.	7437.
PEAK DEMAND (UNIT/HR)	1457.	25.
TOTAL COST (\$)	43858.15	4387.78

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6251806.	32481.
PEAK DEMAND (UNIT/HR)	2022.	35.
TOTAL COST (\$)	645945.13	19163.94

ENTECH ENGINEERING E2DOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:53: 7 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40PPKKWH BONPKDMHTG	744 252	437963. 298671.	31489.53 0.00	1457. 1457.	1457. 1457.	0.00 12482.72	43972.25
FEB	40PPKKWH BONPKDMHTG	672 228	393296. 269225.	28278.01 0.00	1457. 1457.	1457. 1457.	0.00 12482.72	40760.73
MAR	40PPKKWH BONPKDMHTG	744 276	455580. 325452.	32756.21 0.00	1457. 1457.	1457. 1457.	0.00 12482.72	45238.93
APR	40PPKKWH BONPKDMHTG	720 252	429387. 296413.	30872.93 0.00	1449. 1449.	1449. 1449.	0.00 12415.23	43288.15
MAY	40PPKKWH BONPKDMHTG	744 252	536732. 340085.	38591.05 0.00	1943. 1943.	1943. 1943.	0.00 16651.39	55242.44
JUN	40PPKKWH BONPKDMCL BONPKKWH	456 264 264	243672. 420690. 420690.	17520.00 0.00 33697.30	1144. 2022. 2022.	1144. 2022. 2022.	0.00 19144.21 0.00	70361.52
JUL	40PPKKWH BONPKDMCL BONPKKWH	504 240 240	277917. 388083. 388083.	19982.25 0.00 31085.49	1123. 2008. 2008.	1123. 2008. 2008.	0.00 19013.84 0.00	70081.58
AUG	40PPKKWH BONPKDMCL BONPKKWH	468 276 276	251131. 446210. 446210.	18056.33 0.00 35741.40	1151. 2009. 2009.	1151. 2009. 2009.	0.00 19024.27 0.00	72822.00
SEP	40PPKKWH BONPKDMCL BONPKKWH	468 252 252	236900. 386581. 386581.	17033.13 0.00 30965.12	1116. 1951. 1951.	1116. 1951. 1951.	0.00 18478.37 0.00	66476.63
OCT	40PPKKWH BONPKDMHTG	744 240	496446. 311527.	35694.44 0.00	1848. 1848.	1848. 1848.	0.00 15838.62	51533.05
NOV	40PPKKWH BONPKDMHTG	720 240	414840. 282675.	29827.00 0.00	1457. 1457.	1457. 1457.	0.00 12482.72	42309.72

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:53: 7 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	40PPKKWH	744	436376.	31375.43	1457.	1457.	0.00	
	RONPKDMHTG	252	298373.	0.00	1457.	1457.	12482.72	
								43858.15
TOTAL			6251806.	462965.63			182979.52	645945.13

EC0-2

MMDDHH	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERFC SUPPLY ELECTRIC KW	3SPERFC SUPPLY ELECTRIC KW	4SPERFC SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (JAN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (FEB)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	6855.140	347.290	347.290	407.299
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	8298.327	420.403	420.403	493.046
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (APR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAY)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7937.531	402.125	402.125	471.610
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUL)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786

VAC SUMMER
 SEPT 10X @ 30°C
 D.W. TANK BASE

	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERFC SUPPLY ELECTRIC KW	3SPERFC SUPPLY ELECTRIC KW	4SPERFC SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (AUG)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	8298.327	420.403	420.403	493.046
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (SEP)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (OCT)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (NOV)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (DEC)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
YEARLY SUMMARY				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	90920.805	4606.157	4606.157	5402.074
AV	30.066	1.523	1.523	1.786

MMDDHH	SSZF2MID	SSZF3MID	SSZF4MID	OSMCAHUS ZR
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (JAN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (FEB)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5451.936	6669.684	6718.840	4004.046
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6599.711	8073.829	8133.333	4847.002
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (APR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAY)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6312.768	7722.792	7779.709	4636.263
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUL)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5738.880	7020.720	7072.463	4214.785
AV	23.912	29.253	29.469	17.562

	SSZF2MID	SSPZ3MID	SSZF4MID	OSMCAHUS
	SUPPLY	SUPPLY	SUPPLY	ZR
	ELECTRIC	ELECTRIC	ELECTRIC	SUPPLY
	KW	KW	KW	ELECTRIC
	KW	KW	KW	KW
----	(49)	(49)	(49)	(49)
MONTHLY SUMMARY (AUG)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6599.711	8073.829	8133.333	4847.002
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (SEP)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (OCT)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5738.880	7020.720	7072.463	4214.785
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (NOV)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5738.880	7020.720	7072.463	4214.785
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (DEC)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
YEARLY SUMMARY				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	72309.883	88461.070	89113.039	53106.289
AV	23.912	29.253	29.469	17.562

MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER

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MONTHLY SUMMARY (JAN)

MN	72.0	73.4	72.0	73.1
MX	75.0	75.4	75.0	75.9
SM	18891.0	18851.0	18846.0	18835.7
AV	75.0	74.8	74.8	74.7

MONTHLY SUMMARY (FEB)

MN	75.0	74.1	72.0	73.0
MX	75.0	75.6	75.0	76.0
SM	17100.0	17093.5	16992.0	17050.2
AV	75.0	75.0	74.5	74.8

MONTHLY SUMMARY (MAR)

MN	75.0	74.3	75.0	74.4
MX	75.0	80.8	75.0	80.7
SM	20700.0	20809.9	20700.0	20825.4
AV	75.0	75.4	75.0	75.5

MONTHLY SUMMARY (APR)

MN	75.0	74.6	75.0	74.5
MX	75.0	90.7	75.0	90.3
SM	18900.0	19587.4	18900.0	19616.6
AV	75.0	77.7	75.0	77.8

MONTHLY SUMMARY (MAY)

MN	75.0	74.7	75.0	75.5
MX	75.0	97.5	75.0	97.0
SM	18900.0	19753.6	18900.0	19892.4
AV	75.0	78.4	75.0	78.9

MONTHLY SUMMARY (JUN)

MN	75.0	75.2	75.0	75.7
MX	75.0	77.9	75.0	78.4
SM	19800.0	20075.2	19800.0	20267.0
AV	75.0	76.0	75.0	76.8

MONTHLY SUMMARY (JUL)

MN	75.0	75.2	75.0	76.1
MX	75.0	77.5	75.0	77.7
SM	18000.0	18288.4	18000.0	18446.9
AV	75.0	76.2	75.0	76.9

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MONTHLY SUMMARY (AUG)

MN	75.0	75.2	75.0	75.8
MX	75.0	77.6	75.0	77.7
SM	20700.0	21040.6	20700.0	21173.5
AV	75.0	76.2	75.0	76.7

MONTHLY SUMMARY (SEP)

MN	75.0	75.0	75.0	75.0
MX	75.0	77.3	75.0	77.3
SM	18900.0	19111.7	18900.0	19182.6
AV	75.0	75.8	75.0	76.1

MONTHLY SUMMARY (OCT)

MN	75.0	74.8	75.0	74.3
MX	75.0	84.6	75.0	83.7
SM	18000.0	18375.1	18000.0	18380.8
AV	75.0	76.6	75.0	76.6

MONTHLY SUMMARY (NOV)

MN	75.0	74.4	75.0	74.2
MX	75.0	90.8	75.0	91.1
SM	18000.0	18311.1	18000.0	18335.8
AV	75.0	76.3	75.0	76.4

MONTHLY SUMMARY (DEC)

MN	75.0	74.1	72.0	73.7
MX	75.0	78.2	75.0	78.1
SM	18900.0	18903.1	18879.0	18931.9
AV	75.0	75.0	74.9	75.1

YEARLY SUMMARY

MN	72.0	73.4	72.0	73.0
MX	75.0	97.5	75.0	97.0
SM	226791.0	230200.5	226617.0	230938.8
AV	75.0	76.1	74.9	76.4

MMDDHH 2EXTPER 2EXTPER 2INTPER 2INTPER

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SETPOINT	TEMP	SETPOINT	TEMP
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MONTHLY SUMMARY (JAN)

MN	72.0	72.4	72.0	72.4
MX	75.0	78.6	75.0	79.3
SM	18423.0	18641.9	18435.0	18688.2
AV	73.1	74.0	73.2	74.2

MONTHLY SUMMARY (FEB)

MN	72.0	72.7	72.0	72.7
MX	75.0	78.8	75.0	79.6
SM	16749.0	16994.1	16764.0	17050.9
AV	73.5	74.5	73.5	74.8

MONTHLY SUMMARY (MAR)

MN	72.0	72.7	72.0	72.7
MX	75.0	85.1	75.0	86.0
SM	20445.0	21047.0	20451.0	21129.1
AV	74.1	76.3	74.1	76.6

MONTHLY SUMMARY (APR)

MN	72.0	72.8	72.0	72.8
MX	75.0	100.4	75.0	101.6
SM	18840.0	21316.4	18846.0	21481.7
AV	74.8	84.6	74.8	85.2

MONTHLY SUMMARY (MAY)

MN	72.0	71.4	72.0	71.5
MX	75.0	104.4	75.0	105.1
SM	18876.0	20721.0	18876.0	20808.5
AV	74.9	82.2	74.9	82.6

MONTHLY SUMMARY (JUN)

MN	75.0	74.4	75.0	74.4
MX	75.0	75.8	75.0	75.8
SM	19800.0	19824.3	19800.0	19820.9
AV	75.0	75.1	75.0	75.1

MONTHLY SUMMARY (JUL)

MN	75.0	74.5	75.0	74.5
MX	75.0	75.7	75.0	75.7
SM	18000.0	18036.0	18000.0	18032.6
AV	75.0	75.2	75.0	75.1

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MONTHLY SUMMARY (AUG)

MN	75.0	74.5	75.0	74.5
MX	75.0	75.8	75.0	75.8
SM	20700.0	20741.3	20700.0	20741.6
AV	75.0	75.1	75.0	75.2

MONTHLY SUMMARY (SEP)

MN	72.0	73.5	72.0	73.9
MX	75.0	75.5	75.0	75.5
SM	18897.0	18872.1	18897.0	18878.9
AV	75.0	74.9	75.0	74.9

MONTHLY SUMMARY (OCT)

MN	72.0	70.5	72.0	71.4
MX	75.0	92.5	75.0	94.6
SM	17976.0	18930.8	17985.0	19083.1
AV	74.9	78.9	74.9	79.5

MONTHLY SUMMARY (NOV)

MN	72.0	72.8	72.0	72.8
MX	75.0	94.2	75.0	95.0
SM	17853.0	18945.8	17868.0	19090.0
AV	74.4	78.9	74.4	79.5

MONTHLY SUMMARY (DEC)

MN	72.0	72.6	72.0	72.6
MX	75.0	82.2	75.0	83.5
SM	18411.0	18695.1	18432.0	18741.0
AV	73.1	74.2	73.1	74.4

YEARLY SUMMARY

MN	72.0	70.5	72.0	71.4
MX	75.0	104.4	75.0	105.1
SM	224970.0	232766.0	225054.0	233546.4
AV	74.4	77.0	74.4	77.2

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MONTHLY SUMMARY (JAN)

MN	72.0	72.4	72.0	72.4
MX	75.0	78.6	75.0	79.3
SM	18423.0	18641.9	18435.0	18688.2
AV	73.1	74.0	73.2	74.2

MONTHLY SUMMARY (FEB)

MN	72.0	72.7	72.0	72.7
MX	75.0	78.8	75.0	79.6
SM	16749.0	16994.1	16764.0	17050.9
AV	73.5	74.5	73.5	74.8

MONTHLY SUMMARY (MAR)

MN	72.0	72.7	72.0	72.7
MX	75.0	85.1	75.0	86.0
SM	20445.0	21047.0	20451.0	21129.1
AV	74.1	76.3	74.1	76.6

MONTHLY SUMMARY (APR)

MN	72.0	72.8	72.0	72.8
MX	75.0	100.4	75.0	101.6
SM	18840.0	21316.4	18846.0	21481.7
AV	74.8	84.6	74.8	85.2

MONTHLY SUMMARY (MAY)

MN	72.0	71.4	72.0	71.5
MX	75.0	104.4	75.0	105.1
SM	18876.0	20721.0	18876.0	20808.5
AV	74.9	82.2	74.9	82.6

MONTHLY SUMMARY (JUN)

MN	75.0	74.4	75.0	74.4
MX	75.0	75.8	75.0	75.8
SM	19800.0	19824.3	19800.0	19820.9
AV	75.0	75.1	75.0	75.1

MONTHLY SUMMARY (JUL)

MN	75.0	74.5	75.0	74.5
MX	75.0	75.7	75.0	75.7
SM	18000.0	18036.0	18000.0	18032.6
AV	75.0	75.2	75.0	75.1

ENTECH ENGINEERING
READING, PA 19603
RS_5 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:55:35 SDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1

PAGE 2- 1

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MONTHLY SUMMARY (AUG)

MN	75.0	74.5	75.0	74.5
MX	75.0	75.8	75.0	75.8
SM	20700.0	20741.3	20700.0	20741.6
AV	75.0	75.1	75.0	75.2

MONTHLY SUMMARY (SEP)

MN	72.0	73.5	72.0	73.9
MX	75.0	75.5	75.0	75.5
SM	18897.0	18872.1	18897.0	18878.9
AV	75.0	74.9	75.0	74.9

MONTHLY SUMMARY (OCT)

MN	72.0	70.5	72.0	71.4
MX	75.0	92.5	75.0	94.6
SM	17976.0	18930.7	17985.0	19083.1
AV	74.9	78.9	74.9	79.5

MONTHLY SUMMARY (NOV)

MN	72.0	72.8	72.0	72.8
MX	75.0	94.2	75.0	95.0
SM	17853.0	18945.7	17868.0	19090.0
AV	74.4	78.9	74.4	79.5

MONTHLY SUMMARY (DEC)

MN	72.0	72.6	72.0	72.6
MX	75.0	82.2	75.0	83.5
SM	18411.0	18695.1	18432.0	18741.0
AV	73.1	74.2	73.1	74.4

YEARLY SUMMARY

MN	72.0	70.5	72.0	71.4
MX	75.0	104.4	75.0	105.1
SM	224970.0	232765.6	225054.0	233546.4
AV	74.4	77.0	74.4	77.2

 MMDHH 4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST	ZONE	THERMOST	ZONE
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MONTHLY SUMMARY (JAN)

MN	72.0	72.4	72.0	72.4
MX	75.0	76.3	75.0	77.2
SM	18234.0	18420.4	18240.0	18440.7
AV	72.4	73.1	72.4	73.2

MONTHLY SUMMARY (FEB)

MN	72.0	72.6	72.0	72.6
MX	75.0	76.2	75.0	77.0
SM	16533.0	16727.1	16554.0	16757.4
AV	72.5	73.4	72.6	73.5

MONTHLY SUMMARY (MAR)

MN	72.0	72.6	72.0	72.6
MX	75.0	82.6	75.0	83.1
SM	20268.0	20624.0	20286.0	20662.6
AV	73.4	74.7	73.5	74.9

MONTHLY SUMMARY (APR)

MN	72.0	72.8	72.0	72.8
MX	75.0	94.4	75.0	95.2
SM	18786.0	20246.1	18786.0	20328.8
AV	74.5	80.3	74.5	80.7

MONTHLY SUMMARY (MAY)

MN	72.0	69.2	72.0	69.4
MX	75.0	101.1	75.0	101.5
SM	18840.0	20109.5	18846.0	20149.2
AV	74.8	79.8	74.8	80.0

MONTHLY SUMMARY (JUN)

MN	75.0	74.2	75.0	74.2
MX	75.0	75.8	75.0	75.8
SM	19800.0	19806.8	19800.0	19806.5
AV	75.0	75.0	75.0	75.0

MONTHLY SUMMARY (JUL)

MN	75.0	74.4	75.0	74.4
MX	75.0	75.7	75.0	75.7
SM	18000.0	18025.5	18000.0	18025.0
AV	75.0	75.1	75.0	75.1

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MONTHLY SUMMARY (AUG)

MN	75.0	74.1	75.0	74.1
MX	75.0	75.8	75.0	75.8
SM	20700.0	20725.5	20700.0	20729.0
AV	75.0	75.1	75.0	75.1

MONTHLY SUMMARY (SEP)

MN	72.0	71.3	72.0	71.6
MX	75.0	75.4	75.0	75.5
SM	18885.0	18833.6	18885.0	18843.3
AV	74.9	74.7	74.9	74.8

MONTHLY SUMMARY (OCT)

MN	72.0	65.1	72.0	66.1
MX	75.0	86.0	75.0	87.3
SM	17880.0	18328.5	17892.0	18433.6
AV	74.5	76.4	74.6	76.8

MONTHLY SUMMARY (NOV)

MN	72.0	72.7	72.0	72.7
MX	75.0	88.5	75.0	89.0
SM	17670.0	18309.8	17685.0	18364.5
AV	73.6	76.3	73.7	76.5

MONTHLY SUMMARY (DEC)

MN	72.0	72.6	72.0	72.6
MX	75.0	79.8	75.0	80.7
SM	18240.0	18478.9	18243.0	18498.7
AV	72.4	73.3	72.4	73.4

YEARLY SUMMARY

MN	72.0	65.1	72.0	66.1
MX	75.0	101.1	75.0	101.5
SM	223836.0	228635.7	223917.0	229039.3
AV	74.0	75.6	74.0	75.7

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----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	75.0	74.7	75.0	74.8
MX	75.0	76.0	75.0	76.0
SM	18900.0	19049.2	18900.0	19056.2
AV	75.0	75.6	75.0	75.6

MONTHLY SUMMARY (FEB)

MN	75.0	74.9	75.0	74.9
MX	75.0	76.0	75.0	76.0
SM	17100.0	17239.7	17100.0	17245.3
AV	75.0	75.6	75.0	75.6

MONTHLY SUMMARY (MAR)

MN	75.0	74.9	75.0	74.9
MX	75.0	82.1	75.0	82.1
SM	20700.0	20961.8	20700.0	20967.7
AV	75.0	75.9	75.0	76.0

MONTHLY SUMMARY (APR)

MN	75.0	75.1	75.0	75.1
MX	75.0	91.5	75.0	91.5
SM	18900.0	19772.1	18900.0	19780.4
AV	75.0	78.5	75.0	78.5

MONTHLY SUMMARY (MAY)

MN	75.0	75.1	75.0	75.1
MX	75.0	98.3	75.0	98.3
SM	18900.0	19963.6	18900.0	19973.4
AV	75.0	79.2	75.0	79.3

MONTHLY SUMMARY (JUN)

MN	75.0	75.4	75.0	75.4
MX	75.0	78.2	75.0	78.2
SM	19800.0	20246.3	19800.0	20254.8
AV	75.0	76.7	75.0	76.7

MONTHLY SUMMARY (JUL)

MN	75.0	75.6	75.0	75.6
MX	75.0	78.0	75.0	78.0
SM	18000.0	18445.5	18000.0	18451.7
AV	75.0	76.9	75.0	76.9

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MONTHLY SUMMARY (AUG)

MN	75.0	75.5	75.0	75.5
MX	75.0	78.0	75.0	78.0
SM	20700.0	21198.8	20700.0	21206.7
AV	75.0	76.8	75.0	76.8

MONTHLY SUMMARY (SEP)

MN	75.0	75.2	75.0	75.2
MX	75.0	77.9	75.0	77.9
SM	18900.0	19247.4	18900.0	19257.9
AV	75.0	76.4	75.0	76.4

MONTHLY SUMMARY (OCT)

MN	75.0	75.1	75.0	75.1
MX	75.0	85.2	75.0	85.2
SM	18000.0	18548.7	18000.0	18558.7
AV	75.0	77.3	75.0	77.3

MONTHLY SUMMARY (NOV)

MN	75.0	74.9	75.0	75.0
MX	75.0	92.8	75.0	92.9
SM	18000.0	18488.1	18000.0	18497.4
AV	75.0	77.0	75.0	77.1

MONTHLY SUMMARY (DEC)

MN	75.0	74.9	75.0	74.9
MX	75.0	79.6	75.0	79.6
SM	18900.0	19072.6	18900.0	19079.5
AV	75.0	75.7	75.0	75.7

YEARLY SUMMARY

MN	75.0	74.7	75.0	74.8
MX	75.0	98.3	75.0	98.3
SM	226800.0	232233.6	226800.0	232329.7
AV	75.0	76.8	75.0	76.8

MMDDHH	4MIDL	4MIDL	0INTEXTP	0INTEXTP
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----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	72.0	72.8	72.0	72.8
MX	75.0	74.8	75.0	74.9
SM	18543.0	18602.9	18642.0	18654.2
AV	73.6	73.8	74.0	74.0

MONTHLY SUMMARY (FEB)

MN	72.0	72.8	72.0	72.8
MX	75.0	75.0	75.0	75.3
SM	16908.0	16894.1	16986.0	16941.0
AV	74.2	74.1	74.5	74.3

MONTHLY SUMMARY (MAR)

MN	72.0	73.0	72.0	73.0
MX	75.0	78.7	75.0	79.9
SM	20652.0	20604.3	20682.0	20670.1
AV	74.8	74.7	74.9	74.9

MONTHLY SUMMARY (APR)

MN	72.0	73.9	75.0	74.2
MX	75.0	88.3	75.0	91.1
SM	18894.0	19260.0	18900.0	19420.7
AV	75.0	76.4	75.0	77.1

MONTHLY SUMMARY (MAY)

MN	75.0	74.3	75.0	74.4
MX	75.0	95.5	75.0	99.4
SM	18900.0	19482.7	18900.0	19677.8
AV	75.0	77.3	75.0	78.1

MONTHLY SUMMARY (JUN)

MN	75.0	74.8	75.0	75.0
MX	75.0	76.0	75.0	77.9
SM	19800.0	19925.6	19800.0	20004.4
AV	75.0	75.5	75.0	75.8

MONTHLY SUMMARY (JUL)

MN	75.0	74.9	75.0	75.1
MX	75.0	76.0	75.0	77.7
SM	18000.0	18132.0	18000.0	18208.3
AV	75.0	75.5	75.0	75.9

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MONTHLY SUMMARY (AUG)

MN	75.0	74.8	75.0	75.1
MX	75.0	76.0	75.0	77.4
SM	20700.0	20845.3	20700.0	20946.6
AV	75.0	75.5	75.0	75.9

MONTHLY SUMMARY (SEP)

MN	75.0	74.6	75.0	74.9
MX	75.0	75.8	75.0	76.7
SM	18900.0	18974.8	18900.0	19056.8
AV	75.0	75.3	75.0	75.6

MONTHLY SUMMARY (OCT)

MN	75.0	74.1	75.0	74.6
MX	75.0	82.4	75.0	84.9
SM	18000.0	18120.0	18000.0	18260.2
AV	75.0	75.5	75.0	76.1

MONTHLY SUMMARY (NOV)

MN	72.0	73.0	75.0	74.0
MX	75.0	87.9	75.0	91.0
SM	17958.0	18066.4	18000.0	18191.2
AV	74.8	75.3	75.0	75.8

MONTHLY SUMMARY (DEC)

MN	72.0	72.9	72.0	72.9
MX	75.0	76.5	75.0	77.4
SM	18678.0	18675.6	18783.0	18745.8
AV	74.1	74.1	74.5	74.4

YEARLY SUMMARY

MN	72.0	72.8	72.0	72.8
MX	75.0	95.5	75.0	99.4
SM	225933.0	227583.6	226293.0	228777.0
AV	74.7	75.3	74.8	75.7

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/26/1996 14:55:35 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELRC USED (MBTU)	THERMAL USED (MBTU)										
	0	--	10	--	20	--	30	--	40	--	50	--						60	--	70	--	80	--	90	--	100	-
HW-BOILER	2827		616		634		478		311		139		41		28		9		4		1		5088	3096.9	0.0	202.4	4504.8
	2827		616		634		478		311		139		41		28		9		4		1						
HERM-CENT-CHLR	1286		825		408		207		244		352		266		81		3		0		0		3672	8366.2	0.0	1972.7	0.0
	1286		825		408		207		244		352		266		81		3		0		0						
COOLING-TWR	1660		651		227		116		89		77		68		102		125		115		442		3672	10338.9	0.0	807.7	0.0
	1660		651		227		116		89		77		68		102		125		115		442						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 154.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 993.6 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

EMTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3096.9	100.0
	-----	-----
LOAD SATISFIED	3096.9	100.0
TOTAL LOAD ON PLANT	3096.9	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HEM-CENT-CHLR	8366.2	100.0
	-----	-----
LOAD SATISFIED	8366.2	100.0
TOTAL LOAD ON PLANT	8366.2	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	21337.4	100.0
	-----	-----
LOAD SATISFIED	21337.4	100.0
TOTAL LOAD ON PLANT	21337.3	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3096.9	3096.9	0.000	0.000	0
COOLING LOADS	8366.2	8366.2	0.000	0.000	0
ELECTRICAL LOADS	21337.3	21337.4	0.000	0.000	0

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.148	4.101	2	20 3	4.101	5088						
HERM-CENT-CHLR	0.292	7.613	6	13 15	7.800	3672						
COOLING-TWR	0.296	9.214	6	13 15	2.379	14688						

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	202.45	4504.78
SPACE COOL	2780.41	0.00
HVAC AUX	3574.63	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.50	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.37	0.00
	-----	-----
TOTAL	21337.36	4504.78

TOTAL SITE ENERGY	25842.22 MBTU	78.4 KBTU/SQFT-YR GROSS-AREA	78.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	68581.08 MBTU	208.1 KBTU/SQFT-YR GROSS-AREA	208.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 10.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	6615459.	1322150.	80.8	56.0	1950.0	8.2	140410.	90465.
SM	437461248.	88799120.	8996.5	7244.9	257400.0	550.3	17564832.	11941428.
AV	1735957.	352377.	35.7	28.7	1021.4	2.2	69702.	47387.
MONTHLY SUMMARY (JUN)								
MN	1269013.	409250.	64.4	54.2	1950.0	1.8	121511.	90465.
MX	7613137.	1600753.	84.6	56.3	1950.0	9.5	140410.	90465.
SM	1311711104.	253112768.	19315.1	14639.3	514800.0	1625.7	36907224.	23882852.
AV	4968603.	958761.	73.2	55.5	1950.0	6.2	139800.	90465.
MONTHLY SUMMARY (JUL)								
MN	2474031.	532226.	65.0	54.6	1950.0	3.2	138581.	90465.
MX	7280946.	1500438.	82.9	56.2	1950.0	9.1	140410.	90465.
SM	1299012736.	249199456.	17977.1	13345.1	468000.0	1606.7	33696456.	21711684.
AV	5412553.	1038331.	74.9	55.6	1950.0	6.7	140402.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
----(1)	----(3)	----(12)	----(13)	----(8)	----(10)	----(20)	----(21)
MONTHLY SUMMARY (AUG)							
MN 1954105.	474979.	65.0	54.4	1950.0	2.6	130798.	90465.
MX 7520791.	1567125.	86.1	56.3	1950.0	9.4	140410.	90465.
SM 1480035840.	286303264.	20711.9	15342.0	538200.1	1833.2	38732536.	24968436.
AV 5362449.	1037331.	75.0	55.6	1950.0	6.6	140335.	90465.
MONTHLY SUMMARY (SEP)							
MN 369178.	174163.	64.4	53.9	1950.0	0.6	107886.	90465.
MX 6498493.	1307453.	82.9	56.0	1950.0	8.1	140410.	90465.
SM 968593152.	191210848.	17492.8	13876.9	491400.0	1209.6	34474932.	22797268.
AV 3843624.	758773.	69.4	55.1	1950.0	4.8	136805.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 5270618.	974010.	71.5	55.6	1950.0	6.5	140410.	90465.
SM 207899664.	51166644.	7064.5	5876.2	210600.0	274.5	13714714.	9770260.
AV 866249.	213194.	29.4	24.5	877.5	1.1	57145.	40709.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 7613137.	1600753.	86.1	56.3	1950.0	9.5	140410.	90465.
SM 5704714240.	1119792000.	91557.9	70324.4	2480400.3	7100.0	175090704.	115071920.
AV 1886480.	370302.	30.3	23.3	820.2	2.3	57900.	38053.

ENTTECH ENGINEERING
READING, PA 19603
RP_2 = HOURLY-REPORT

BZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	----(1)	----(3)	----(4)	----(7)
MONTHLY SUMMARY (JAN)				
MN	13589.	1196.	21318.	4100792.
MX	3021471.	90217.	3808477.	4100792.
SM	137028992.	8995817.	199436112.	1033399296.
AV	543766.	35698.	791413.	4100791.
MONTHLY SUMMARY (FEB)				
MN	13589.	1196.	21318.	4100792.
MX	1723249.	90217.	2398700.	4100792.
SM	55065024.	4721942.	85777768.	934980352.
AV	241513.	20710.	376218.	4100791.
MONTHLY SUMMARY (MAR)				
MN	13589.	1196.	21318.	4100792.
MX	1656957.	90217.	2324611.	4100792.
SM	50730196.	4173791.	78165096.	1131818240.
AV	183805.	15122.	283207.	4100791.
MONTHLY SUMMARY (APR)				
MN	13589.	1196.	21318.	4100792.
MX	1020145.	89773.	1600378.	4100792.
SM	14631465.	1287569.	22953464.	1033399296.
AV	58061.	5109.	91085.	4100791.
MONTHLY SUMMARY (MAY)				
MN	0.	0.	0.	0.
MX	178783.	15733.	280470.	4100792.
SM	3633134.	319716.	5699565.	492095040.
AV	14417.	1269.	22617.	1952758.
MONTHLY SUMMARY (JUN)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

ENTSC ENGINEERING
READING, PA 19603
RP_2 = HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/26/1996 14:55:35 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1

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	HW-BOILE R LOAD BTU/HR ----(1)	HW-BOILE R ELECTRIC USE BTU/HR ----(3)	HW-BOILE R FUEL USE BTU/HR ----(4)	HW-BOILE R CAPACITY RUNNING BTU/HR ----(7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	196390.	17282.	308091.	4100792.
SM	4380862.	385516.	6872583.	541304576.
AV	18254.	1606.	28636.	2255436.
MONTHLY SUMMARY (NOV)				
MN	13589.	1196.	21318.	4100792.
MX	1254786.	90217.	1870762.	4100792.
SM	29133240.	2513368.	45460880.	984189824.
AV	121389.	10472.	189420.	4100791.
MONTHLY SUMMARY (DEC)				
MN	13589.	1196.	21318.	4100792.
MX	1863299.	90217.	2554551.	4100792.
SM	97294448.	7980622.	149779536.	1033399296.
AV	386089.	31669.	594363.	4100791.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	3021471.	90217.	3808477.	4100792.
SM	391897344.	30378340.	594144960.	7184585728.
AV	129596.	10046.	196477.	2375855.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- TION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT- 3413.00	FUEL-OIL UNIT- 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	437963.	8353.
PEAK DEMAND (UNIT/HR)	1457.	33.
TOTAL COST (\$)	43972.25	4928.39
FEB		
ENERGY CONSUMPTION (UNIT/MO)	393296.	6604.
PEAK DEMAND (UNIT/HR)	1457.	35.
TOTAL COST (\$)	40760.73	3896.21
MAR		
ENERGY CONSUMPTION (UNIT/MO)	455580.	4791.
PEAK DEMAND (UNIT/HR)	1457.	21.
TOTAL COST (\$)	45238.93	2826.42
APR		
ENERGY CONSUMPTION (UNIT/MO)	429387.	1519.
PEAK DEMAND (UNIT/HR)	1449.	17.
TOTAL COST (\$)	43288.15	896.48
MAY		
ENERGY CONSUMPTION (UNIT/MO)	536732.	198.
PEAK DEMAND (UNIT/HR)	1943.	3.
TOTAL COST (\$)	55242.44	116.83
JUN		
ENERGY CONSUMPTION (UNIT/MO)	664362.	0.
PEAK DEMAND (UNIT/HR)	2022.	0.
TOTAL COST (\$)	70361.52	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	666001.	0.
PEAK DEMAND (UNIT/HR)	2008.	0.
TOTAL COST (\$)	70081.58	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	697341.	0.
PEAK DEMAND (UNIT/HR)	2009.	0.
TOTAL COST (\$)	72822.00	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	623481.	0.
PEAK DEMAND (UNIT/HR)	1951.	0.
TOTAL COST (\$)	66476.63	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	496446.	310.
PEAK DEMAND (UNIT/HR)	1848.	9.
TOTAL COST (\$)	51533.05	183.03
NOV		
ENERGY CONSUMPTION (UNIT/MO)	414840.	3269.
PEAK DEMAND (UNIT/HR)	1457.	22.
TOTAL COST (\$)	42309.72	1928.80
DEC		
ENERGY CONSUMPTION (UNIT/MO)	436376.	7437.
PEAK DEMAND (UNIT/HR)	1457.	25.
TOTAL COST (\$)	43858.15	4387.78

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6251806.	32481.
PEAK DEMAND (UNIT/HR)	2022.	35.
TOTAL COST (\$)	645945.13	19163.94

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/26/1996 14:55:35 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- BS-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40PPKKWH	744	437963.	31489.53	1457.	1457.	0.00	43972.25
	BONPKDMHTG	252	298671.	0.00	1457.	1457.	12482.72	
FEB	40PPKKWH	672	393296.	28278.01	1457.	1457.	0.00	40760.73
	BONPKDMHTG	228	269225.	0.00	1457.	1457.	12482.72	
MAR	40PPKKWH	744	455580.	32756.21	1457.	1457.	0.00	45238.93
	BONPKDMHTG	276	325452.	0.00	1457.	1457.	12482.72	
APR	40PPKKWH	720	429387.	30872.93	1449.	1449.	0.00	43288.15
	BONPKDMHTG	252	296413.	0.00	1449.	1449.	12415.23	
MAY	40PPKKWH	744	536732.	38591.05	1943.	1943.	0.00	55242.44
	BONPKDMHTG	252	340085.	0.00	1943.	1943.	16651.39	
JUN	40PPKKWH	456	243672.	17520.00	1144.	1144.	0.00	70361.52
	BONPKDMCL	264	420690.	0.00	2022.	2022.	19144.21	
	BONPKKWH	264	420690.	33697.30	2022.	2022.	0.00	
JUL	40PPKKWH	504	277917.	19982.25	1123.	1123.	0.00	70081.58
	BONPKDMCL	240	388083.	0.00	2008.	2008.	19013.84	
	BONPKKWH	240	388083.	31085.49	2008.	2008.	0.00	
AUG	40PPKKWH	468	251131.	18056.33	1151.	1151.	0.00	72822.00
	BONPKDMCL	276	446210.	0.00	2009.	2009.	19024.27	
	BONPKKWH	276	446210.	35741.40	2009.	2009.	0.00	
SEP	40PPKKWH	468	236900.	17033.13	1116.	1116.	0.00	66476.63
	BONPKDMCL	252	386581.	0.00	1951.	1951.	18478.37	
	BONPKKWH	252	386581.	30965.12	1951.	1951.	0.00	
OCT	40PPKKWH	744	496446.	35694.44	1848.	1848.	0.00	51533.05
	BONPKDMHTG	240	311527.	0.00	1848.	1848.	15838.62	
NOV	40PPKKWH	720	414840.	29827.00	1457.	1457.	0.00	42309.72
	BONPKDMHTG	240	282675.	0.00	1457.	1457.	12482.72	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/26/1996 14:55:35 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- SS-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	40FPKKWH	744	436376.	31375.43	1457.	1457.	0.00	
	80NPKDMHTG	252	298373.	0.00	1457.	1457.	12482.72	
								43858.15
TOTAL			6251806.	462965.63			182979.52	645945.13

ECO-3

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PV-A EQUIPMENT SIZES

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
 FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	4.038	1 1										
HEM-CENT-CHLR	7.800	1 1										
COOLING-TWR	2.379	4 4										

Model CAC
 INFILTRATION W/ 25%
 REDUCTION

OFF-PEAK DENSE

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)										
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	--	110+	-----	-----	-----	-----	
HW-BOILER	3062		568		512		430		294		110		62		36		9		4		1			5088	2807.1	0.0	180.1	4064.9
	3062		568		512		430		294		110		62		36		9		4		1							
HERM-CENT-CHLR	1071		521		766		463		318		343		166		24		0		0		0			3672	8780.1	0.0	1989.2	0.0
	1071		521		766		463		318		343		166		24		0		0		0							
COOLING-TWR	1226		601		570		302		134		112		124		124		116		87		276			3672	10769.3	0.0	813.8	0.0
	1226		601		570		302		134		112		124		124		116		87		276							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 151.9 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 924.7 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACG - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	2807.1	100.0
	-----	-----
LOAD SATISFIED	2807.1	100.0
TOTAL LOAD ON PLANT	2807.1	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8780.1	100.0
	-----	-----
LOAD SATISFIED	8780.1	100.0
TOTAL LOAD ON PLANT	8780.1	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	23047.1	100.0
	-----	-----
LOAD SATISFIED	23047.1	100.0
TOTAL LOAD ON PLANT	23047.5	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
 MAXIMUM TOWER EXIT TEMPERATURE = 85.F

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHED
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2807.1	2807.1	0.000	0.000	0
COOLING LOADS	8780.1	8780.1	0.000	0.000	0
ELECTRICAL LOADS	23047.5	23047.1	0.000	0.000	0

ENTECH ENGINEERING EZZOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	180.11	4064.88
SPACE COOL	2802.93	0.00
HVAC AUX	5283.90	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.25	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.26	0.00
	-----	-----
TOTAL	23046.46	4064.88

TOTAL SITE ENERGY	27111.97 MBTU	82.3 KBTU/SQFT-YR GROSS-AREA	82.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	73275.33 MBTU	222.4 KBTU/SQFT-YR GROSS-AREA	222.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	5606697.	1057932.	76.9	55.8	1950.0	6.9	140410.	90465.
SM	207910800.	69468808.	16621.7	13621.5	491400.0	305.3	29105650.	22797268.
AV	422583.	141197.	33.8	27.7	998.8	0.6	59158.	46336.
MONTHLY SUMMARY (JUN)								
MN	294536.	138901.	64.5	53.9	1950.0	0.5	106265.	90465.
MX	4273526.	834695.	80.0	55.3	1950.0	5.3	140410.	90465.
SM	795309120.	202452688.	31423.1	24802.8	889200.1	1060.6	59769016.	41252200.
AV	1744099.	443975.	68.9	54.4	1950.0	2.3	131072.	90465.
MONTHLY SUMMARY (JUL)								
MN	329479.	155419.	65.0	53.9	1950.0	0.6	113415.	90465.
MX	4229558.	830064.	79.0	55.3	1950.0	5.3	140410.	90465.
SM	1073095552.	255829792.	35678.5	27485.1	982800.1	1404.0	68536032.	45594536.
AV	2129158.	507599.	70.8	54.5	1950.0	2.8	135984.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)							
MN 294536.	138901.	64.5	53.9	1950.0	0.5	108054.	90465.
MX 4478983.	904651.	82.9	55.4	1950.0	5.6	140410.	90465.
SM 865315712.	217927440.	33142.3	25473.6	912600.1	1149.2	62408340.	42337780.
AV 1848965.	465657.	70.8	54.4	1950.0	2.5	133351.	90465.
MONTHLY SUMMARY (SEP)							
MN 294536.	138901.	65.0	53.9	1950.0	0.5	106265.	90465.
MX 3308904.	665170.	78.0	55.0	1950.0	4.2	140410.	90465.
SM 562664832.	169260320.	32074.6	25362.2	912600.1	789.1	59067972.	42337784.
AV 1202275.	361667.	68.5	54.2	1950.0	1.7	126214.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 2625922.	562344.	70.1	54.7	1950.0	3.4	140410.	90465.
SM 115559568.	49308716.	16451.3	13587.5	491400.0	190.0	28136252.	22797272.
AV 229285.	97835.	32.6	27.0	975.0	0.4	55826.	45233.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 5606697.	1057932.	82.9	55.8	1950.0	6.9	140410.	90465.
SM 3619855616.	964247744.	165391.5	130332.7	4680000.5	4898.1	307023264.	217116832.
AV 631077.	168105.	28.8	22.7	815.9	0.9	53526.	37852.

MDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
----	(1)	----	(3)	----
----	(4)	----	(7)	

MONTHLY SUMMARY (JAN)

MN	47751.	4202.	74911.	4038225.
MX	3423144.	88841.	4218392.	4038225.
SM	688620416.	38225324.	966023552.	1986806912.
AV	1399635.	77694.	1963463.	4038226.

MONTHLY SUMMARY (FEB)

MN	13382.	1178.	20993.	4038225.
MX	4038225.	88841.	4845870.	4038225.
SM	584812672.	31672012.	815745856.	1792971904.
AV	1317146.	71333.	1837266.	4038225.

MONTHLY SUMMARY (MAR)

MN	13382.	1178.	20993.	4038225.
MX	2094475.	88841.	2802037.	4038225.
SM	342445536.	25682196.	515275392.	1889889536.
AV	731721.	54876.	1101016.	4038226.

MONTHLY SUMMARY (APR)

MN	13382.	1178.	20993.	4038225.
MX	1511768.	88841.	2154608.	4038225.
SM	93022688.	7940094.	144736848.	1889889536.
AV	198766.	16966.	309267.	4038226.

MONTHLY SUMMARY (MAY)

MN	0.	0.	0.	0.
MX	178219.	15683.	279585.	4038225.
SM	11111955.	977852.	17432148.	969173824.
AV	22585.	1988.	35431.	1969866.

MONTHLY SUMMARY (JUN)

MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

	HW-BOILE R LOAD BTU/HR ---- (1)	HW-BOILE R ELECTRIC USE BTU/HR ---- (3)	HW-BOILE R FUEL USE BTU/HR ---- (4)	HW-BOILE R CAPACITY RUNNING BTU/HR ---- (7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	460250.	40502.	722028.	4038225.
SM	16346390.	1438483.	25643796.	1017632512.
AV	32433.	2854.	50881.	2019112.
MONTHLY SUMMARY (NOV)				
MN	13382.	1178.	20993.	4038225.
MX	1976723.	88841.	2672497.	4038225.
SM	237940112.	18795102.	362754432.	1938348032.
AV	495709.	39156.	755738.	4038225.
MONTHLY SUMMARY (DEC)				
MN	13382.	1178.	20993.	4038225.
MX	2628322.	88841.	3381122.	4038225.
SM	591915264.	35614160.	846545600.	1986806912.
AV	1203080.	72387.	1720621.	4038226.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	4038225.	88841.	4845870.	4038225.
SM	2566215168.	160345232.	3694157568.	13471519744.
AV	447388.	27954.	644030.	2348591.

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- TION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTCH ENGINEERING BZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT=	FUEL-OIL UNIT=
	3413.00	138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	487961.	7925.
PEAK DEMAND (UNIT/HR)	1455.	30.
TOTAL COST (\$)	47557.54	4675.68
FEB		
ENERGY CONSUMPTION (UNIT/MO)	439306.	6237.
PEAK DEMAND (UNIT/HR)	1453.	35.
TOTAL COST (\$)	44037.77	3680.07
MAR		
ENERGY CONSUMPTION (UNIT/MO)	503776.	4040.
PEAK DEMAND (UNIT/HR)	1446.	20.
TOTAL COST (\$)	48611.83	2383.83
APR		
ENERGY CONSUMPTION (UNIT/MO)	469111.	1157.
PEAK DEMAND (UNIT/HR)	1437.	16.
TOTAL COST (\$)	46045.34	682.53
MAY		
ENERGY CONSUMPTION (UNIT/MO)	568819.	164.
PEAK DEMAND (UNIT/HR)	1914.	2.
TOTAL COST (\$)	57299.05	96.77
JUN		
ENERGY CONSUMPTION (UNIT/MO)	697866.	0.
PEAK DEMAND (UNIT/HR)	1981.	0.
TOTAL COST (\$)	72316.75	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	703851.	0.
PEAK DEMAND (UNIT/HR)	1972.	0.
TOTAL COST (\$)	72397.58	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	733290.	0.
PEAK DEMAND (UNIT/HR)	1974.	0.
TOTAL COST (\$)	75002.72	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	660800.	0.
PEAK DEMAND (UNIT/HR)	1918.	0.
TOTAL COST (\$)	68798.25	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	539103.	229.
PEAK DEMAND (UNIT/HR)	1829.	5.
TOTAL COST (\$)	54434.82	135.25
NOV		
ENERGY CONSUMPTION (UNIT/MO)	462145.	2814.
PEAK DEMAND (UNIT/HR)	1447.	19.
TOTAL COST (\$)	45628.25	1660.25
DEC		
ENERGY CONSUMPTION (UNIT/MO)	486706.	6742.
PEAK DEMAND (UNIT/HR)	1450.	24.
TOTAL COST (\$)	47423.10	3978.03

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6752735.	29309.
PEAK DEMAND (UNIT/HR)	1981.	35.
TOTAL COST (\$)	679553.06	17292.41

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 1/1996 11:18:57 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40FPKKWH	744	487961.	35084.43	1455.	1455.	0.00	
	BONPKDMHTG	252	297777.	0.00	1455.	1455.	12473.11	47557.54
FEB	40FPKKWH	672	439306.	31586.13	1453.	1453.	0.00	
	BONPKDMHTG	228	268484.	0.00	1453.	1453.	12451.63	44037.77
MAR	40FPKKWH	744	503776.	36221.48	1446.	1446.	0.00	
	BONPKDMHTG	276	324761.	0.00	1446.	1446.	12390.35	48611.83
APR	40FPKKWH	720	469111.	33729.11	1437.	1437.	0.00	
	BONPKDMHTG	252	296112.	0.00	1437.	1437.	12316.23	46045.34
MAY	40FPKKWH	744	568819.	40898.05	1914.	1914.	0.00	
	BONPKDMHTG	252	337596.	0.00	1914.	1914.	16400.99	57299.05
JUN	40FPKKWH	456	285499.	20527.35	1088.	1088.	0.00	
	BONPKDMCL	264	412368.	0.00	1981.	1981.	18758.73	
	BONPKKWH	264	412368.	33030.67	1981.	1981.	0.00	72316.75
JUL	40FPKKWH	504	323908.	23288.99	1072.	1072.	0.00	
	BONPKDMCL	240	379942.	0.00	1972.	1972.	18675.21	
	BONPKKWH	240	379942.	30433.38	1972.	1972.	0.00	72397.58
AUG	40FPKKWH	468	296469.	21316.14	1095.	1095.	0.00	
	BONPKDMCL	276	436821.	0.00	1974.	1974.	18697.22	
	BONPKKWH	276	436821.	34989.35	1974.	1974.	0.00	75002.72
SEP	40FPKKWH	468	280414.	20161.77	1066.	1066.	0.00	
	BONPKDMCL	252	380386.	0.00	1918.	1918.	18167.58	
	BONPKKWH	252	380386.	30468.90	1918.	1918.	0.00	68798.25
OCT	40FPKKWH	744	539103.	38761.54	1829.	1829.	0.00	
	BONPKDMHTG	240	310190.	0.00	1829.	1829.	15673.28	54434.82
NOV	40FPKKWH	720	462145.	33228.25	1447.	1447.	0.00	
	BONPKDMHTG	240	282218.	0.00	1447.	1447.	12400.00	45628.25

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11:18:57 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	40PPKKWH	744	486706.	34994.19	1450.	1450.	0.00	
	BONPKDMHTG	252	297287.	0.00	1450.	1450.	12428.91	
								47423.10
TOTAL			6752735.	498719.72			180833.25	679553.06

ECO-3

ENTECH ENGINEERING BZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEWARK, NJ

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	4.038	1	1									
HEAT-CENT-CHLR	7.800	1	1									
COOLING-TWR	2.379	4	4									

MODEL OAC
INTERIOR W/25%
REDUCTION
ON-PEAK USAGE

ENTTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)
	0 --	10 --	20 --	30 --	40 --	50 --	60 --	70 --	80 --	90 --	100 -	110+						
HW-BOILER	3062	568	512	430	294	110	62	36	9	4	1		5088	2807.1	0.0	180.1	4064.9	
	3062	568	512	430	294	110	62	36	9	4	1							
HEM-CENT-CHLR	1071	521	766	463	318	343	166	24	0	0	0		3672	8780.1	0.0	1989.2	0.0	
	1071	521	766	463	318	343	166	24	0	0	0							
COOLING-TWR	1226	601	570	302	134	112	124	124	116	87	276		3672	10769.3	0.0	813.8	0.0	
	1226	601	570	302	134	112	124	124	116	87	276							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 151.9 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 924.7 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
 THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	2807.1	100.0
-----	-----	-----
LOAD SATISFIED	2807.1	100.0
TOTAL LOAD ON PLANT	2807.1	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8780.1	100.0
-----	-----	-----
LOAD SATISFIED	8780.1	100.0
TOTAL LOAD ON PLANT	8780.1	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	23047.1	100.0
-----	-----	-----
LOAD SATISFIED	23047.1	100.0
TOTAL LOAD ON PLANT	23047.5	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 85.F

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
 FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	2807.1	2807.1	0.000	0.000	0
COOLING LOADS	8780.1	8780.1	0.000	0.000	0
ELECTRICAL LOADS	23047.5	23047.1	0.000	0.000	0

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
			DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.137	4.038	2 20	3	4.038	5088						
HERM-CENT-CHLR	0.307	7.085	8 18	15	7.800	3672						
COOLING-TWR	0.308	8.543	6 13	15	2.379	14688						

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	180.11	4064.88
SPACE COOL	2802.93	0.00
HVAC AUX	5283.90	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.25	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.26	0.00

TOTAL	23046.46	4064.88

TOTAL SITE ENERGY	27111.97 MBTU	82.3 KBTU/SQFT-YR GROSS-AREA	82.3 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	73275.33 MBTU	222.4 KBTU/SQFT-YR GROSS-AREA	222.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	----(1)	----(3)	----(12)	----(13)	----(8)	----(10)	----(20)	----(21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	6223559.	1230971.	80.2	56.0	1950.0	7.7	140410.	90465.
SM	399675968.	83401216.	8952.6	7242.1	257400.0	506.1	17523364.	11941428.
AV	1586016.	330957.	35.5	28.7	1021.4	2.0	69537.	47387.
MONTHLY SUMMARY (JUN)								
MN	896833.	378281.	64.8	54.1	1950.0	1.4	117254.	90465.
MX	7082872.	1460502.	83.9	56.3	1950.0	8.8	140410.	90465.
SM	1184410880.	230279856.	19148.2	14625.9	514800.0	1471.8	36816312.	23882852.
AV	4486405.	872272.	72.5	55.4	1950.0	5.6	139456.	90465.
MONTHLY SUMMARY (JUL)								
MN	1535604.	433877.	64.4	54.3	1950.0	2.1	133925.	90465.
MX	6885006.	1399159.	82.3	56.3	1950.0	8.6	140410.	90465.
SM	1179970176.	226407168.	17793.3	13334.4	468000.0	1461.3	33685460.	21711684.
AV	4916543.	943363.	74.1	55.6	1950.0	6.1	140356.	90465.

ENTECH ENGINEERING
READING, PA 19603
RP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1

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	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)								
MN	825230.	372638.	65.0	54.1	1950.0	1.3	125451.	90465.
MX	7084853.	1452633.	85.4	56.3	1950.0	8.8	140410.	90465.
SM	1341466752.	260021408.	20505.1	15328.7	538200.1	1664.3	38699644.	24968436.
AV	4860387.	942107.	74.3	55.5	1950.0	6.0	140216.	90465.
MONTHLY SUMMARY (SEP)								
MN	348085.	164218.	64.4	53.9	1950.0	0.6	107434.	90465.
MX	6108622.	1216208.	82.2	56.0	1950.0	7.6	140410.	90465.
SM	866196288.	175526368.	17387.1	13863.9	491400.0	1088.6	34247308.	22797268.
AV	3437287.	696533.	69.0	55.0	1950.0	4.3	135902.	90465.
MONTHLY SUMMARY (OCT)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	5008464.	925952.	71.0	55.6	1950.0	6.2	140410.	90465.
SM	188528128.	49286748.	7055.9	5874.4	210600.0	252.7	13638067.	9770260.
AV	785534.	205361.	29.4	24.5	877.5	1.1	56825.	40709.
MONTHLY SUMMARY (NOV)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	7084853.	1460502.	85.4	56.3	1950.0	8.8	140410.	90465.
SM	5160248320.	1024922816.	90842.2	70269.4	2480400.3	6444.8	174610160.	115071920.
AV	1706431.	338930.	30.0	23.2	820.2	2.1	57741.	38053.

ENTECH ENGINEERING
READING, PA 19603
RP_2 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHD1

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	---- (1)	---- (3)	---- (4)	---- (7)
MONTHLY SUMMARY (JAN)				
MN	13382.	1178.	20993.	4038225.
MX	2270410.	88841.	2994365.	4038225.
SM	88794392.	6561223.	133078104.	1017632512.
AV	352359.	26037.	528088.	4038224.
MONTHLY SUMMARY (FEB)				
MN	13382.	1178.	20993.	4038225.
MX	1250150.	88841.	1858722.	4038225.
SM	31503676.	2751152.	49319672.	920715136.
AV	138174.	12066.	216314.	4038224.
MONTHLY SUMMARY (MAR)				
MN	13382.	1178.	20993.	4038225.
MX	1219736.	88841.	1824115.	4038225.
SM	28890218.	2493562.	45086800.	1114549888.
AV	104675.	9035.	163358.	4038224.
MONTHLY SUMMARY (APR)				
MN	13382.	1178.	20993.	4038225.
MX	697945.	61419.	1094918.	4038225.
SM	10010116.	880890.	15703610.	1017632512.
AV	39723.	3496.	62316.	4038224.
MONTHLY SUMMARY (MAY)				
MN	0.	0.	0.	0.
MX	153350.	13495.	240572.	4038225.
SM	3387980.	298142.	5314975.	484586912.
AV	13444.	1183.	21091.	1922964.
MONTHLY SUMMARY (JUN)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

ENTECH ENGINEERING
READING, PA 19603
RP_2 - HOURLY-REPORT

EZDOS - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 1/1996 11: 5: 6 PDL RUN 1
PTMOAC0 - SIM MCA H20 ONLY W/OA SCHED1

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	HW-BOILE R LOAD BTU/HR ----(1)	HW-BOILE R ELECTRIC USE BTU/HR ----(3)	HW-BOILE R FUEL USE BTU/HR ----(4)	HW-BOILE R CAPACITY RUNNING BTU/HR ----(7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	125740.	11065.	197258.	4038225.
SM	3920211.	344979.	6149925.	533045600.
AV	16334.	1437.	25625.	2221023.
MONTHLY SUMMARY (NOV)				
MN	13382.	1178.	20993.	4038225.
MX	876386.	77122.	1374852.	4038225.
SM	17540670.	1543579.	27517352.	969173824.
AV	73086.	6432.	114656.	4038224.
MONTHLY SUMMARY (DEC)				
MN	13382.	1178.	20993.	4038225.
MX	1373219.	88841.	1998314.	4038225.
SM	56776184.	4891657.	88561568.	1017632512.
AV	225302.	19411.	351435.	4038224.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	2270410.	88841.	2994365.	4038225.
SM	240823456.	19765184.	370732000.	7074969600.
AV	79637.	6536.	122597.	2339606.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	1413.00	0.0000	5.0000	0.00	1000000.0000	0.00	0.00	YELECI		
FUEL-OIL	138690.00	0.5900	5.0000	0.00	1000000.0000	0.00	0.00			

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT= 3413.00	FUEL-OIL UNIT= 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	487961.	7925.
PEAK DEMAND (UNIT/HR)	1455.	30.
TOTAL COST (\$)	47557.54	4675.68
FEB		
ENERGY CONSUMPTION (UNIT/MO)	439306.	6237.
PEAK DEMAND (UNIT/HR)	1453.	35.
TOTAL COST (\$)	44037.77	3680.07
MAR		
ENERGY CONSUMPTION (UNIT/MO)	503776.	4040.
PEAK DEMAND (UNIT/HR)	1446.	20.
TOTAL COST (\$)	48611.83	2383.83
APR		
ENERGY CONSUMPTION (UNIT/MO)	469111.	1157.
PEAK DEMAND (UNIT/HR)	1437.	16.
TOTAL COST (\$)	46045.34	682.53
MAY		
ENERGY CONSUMPTION (UNIT/MO)	568819.	164.
PEAK DEMAND (UNIT/HR)	1914.	2.
TOTAL COST (\$)	57299.05	96.77
JUN		
ENERGY CONSUMPTION (UNIT/MO)	697866.	0.
PEAK DEMAND (UNIT/HR)	1981.	0.
TOTAL COST (\$)	72316.75	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	703851.	0.
PEAK DEMAND (UNIT/HR)	1972.	0.
TOTAL COST (\$)	72397.58	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	733290.	0.
PEAK DEMAND (UNIT/HR)	1974.	0.
TOTAL COST (\$)	75002.72	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	660800.	0.
PEAK DEMAND (UNIT/HR)	1918.	0.
TOTAL COST (\$)	68798.25	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	539103.	229.
PEAK DEMAND (UNIT/HR)	1829.	5.
TOTAL COST (\$)	54434.82	135.25
NOV		
ENERGY CONSUMPTION (UNIT/MO)	462145.	2814.
PEAK DEMAND (UNIT/HR)	1447.	19.
TOTAL COST (\$)	45628.25	1660.25
DEC		
ENERGY CONSUMPTION (UNIT/MO)	486706.	6742.
PEAK DEMAND (UNIT/HR)	1450.	24.
TOTAL COST (\$)	47423.10	3978.03

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6752735.	29309.
PEAK DEMAND (UNIT/HR)	1981.	35.
TOTAL COST (\$)	679553.06	17292.41

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ
 FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40PPKKWH	744	487961.	35084.43	1455.	1455.	0.00	
	BONPKDMHTG	252	297777.	0.00	1455.	1455.	12473.11	47557.54
FEB	40PPKKWH	672	439306.	31586.13	1453.	1453.	0.00	
	BONPKDMHTG	228	268484.	0.00	1453.	1453.	12451.63	44037.77
MAR	40PPKKWH	744	503776.	36221.48	1446.	1446.	0.00	
	BONPKDMHTG	276	324761.	0.00	1446.	1446.	12390.35	48611.83
APR	40PPKKWH	720	469111.	33729.11	1437.	1437.	0.00	
	BONPKDMHTG	252	296112.	0.00	1437.	1437.	12316.23	46045.34
MAY	40PPKKWH	744	568819.	40898.05	1914.	1914.	0.00	
	BONPKDMHTG	252	337596.	0.00	1914.	1914.	16400.99	57299.05
JUN	40PPKKWH	456	285499.	20527.35	1088.	1088.	0.00	
	BONPKDMCL	264	412368.	0.00	1981.	1981.	18758.73	
	BONPKKWH	264	412368.	33030.67	1981.	1981.	0.00	72316.75
JUL	40PPKKWH	504	323908.	23288.99	1072.	1072.	0.00	
	BONPKDMCL	240	379942.	0.00	1972.	1972.	18675.21	
	BONPKKWH	240	379942.	30433.38	1972.	1972.	0.00	72397.58
AUG	40PPKKWH	468	296469.	21316.14	1095.	1095.	0.00	
	BONPKDMCL	276	436821.	0.00	1974.	1974.	18697.22	
	BONPKKWH	276	436821.	34989.35	1974.	1974.	0.00	75002.72
SEP	40PPKKWH	468	280414.	20161.77	1066.	1066.	0.00	
	BONPKDMCL	252	380386.	0.00	1918.	1918.	18167.58	
	BONPKKWH	252	380386.	30468.90	1918.	1918.	0.00	68798.25
OCT	40PPKKWH	744	539103.	38761.54	1829.	1829.	0.00	
	BONPKDMHTG	240	310190.	0.00	1829.	1829.	15673.28	54434.82
NOV	40PPKKWH	720	462145.	33228.25	1447.	1447.	0.00	
	BONPKDMHTG	240	282218.	0.00	1447.	1447.	12400.00	45628.25

HNTCH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 1/1996 11: 5: 6 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	40FPKKWH	744	486706.	34994.19	1450.	1450.	0.00	
	BONPKDMHTG	252	297287.	0.00	1450.	1450.	12428.91	
								47423.10
TOTAL			6752735.	498719.72			180833.25	679553.06

ECO-S Bldg 1010 Reaction in 2nd kitchen

MMDDHH	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----	(33)	(33)	(33)	(33)	(33)
MONTHLY SUMMARY (JAN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9049.063	3929.703	11290.217	6589.162	24846.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (FEB)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8166.226	3546.317	10188.731	5946.316	22422.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.474	6267.740	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (APR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.475	6267.739	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAY)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9049.063	3929.703	11290.217	6589.161	24846.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8386.935	3642.164	10464.104	6107.028	23028.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUL)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9269.771	4025.550	11565.588	6749.873	25452.000
AV	18.392	7.987	22.948	13.393	50.500

Model 36

Insulation 1/2" / 10

Reaction

	0SSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)
MONTHLY SUMMARY (AUG)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.474	6267.739	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (SEP)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8607.644	3738.010	10739.475	6267.740	23634.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (OCT)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9269.771	4025.550	11565.588	6749.873	25452.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (NOV)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	8828.353	3833.857	11014.846	6428.450	24240.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (DEC)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	9049.062	3929.703	11290.217	6589.162	24846.000
AV	18.392	7.987	22.948	13.393	50.500
YEARLY SUMMARY					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	105498.813	45814.586	131627.406	76819.984	289668.000
AV	18.392	7.987	22.948	13.393	50.500

DOE-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1
FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1
PTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
STM-BOILER	9985.1	100.0
DHW-HEATER	0.0	0.0
	-----	-----
LOAD SATISFIED	9985.1	100.0
TOTAL LOAD ON PLANT	9985.1	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-REC-CHLR	15871.3	100.0
	-----	-----
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	21900.3	100.0
	-----	-----
LOAD SATISFIED	21900.3	100.0
TOTAL LOAD ON PLANT	21900.3	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1
 PTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	9985.1	9985.1	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21900.3	21900.3	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- BBPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	550.53	15151.64	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4964.14	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
	-----	-----	-----
TOTAL	21900.56	15151.64	0.00

TOTAL SITE ENERGY	37051.90 MBTU	313.2 KBTU/SQFT-YR GROSS-AREA	313.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	80918.21 MBTU	684.0 KBTU/SQFT-YR GROSS-AREA	684.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING
READING, PA 19603
PR_1
- HOURLY-REPORT

HEZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:24: 2 PDL RUN 1
FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24

PAGE 1- 1

MMDDHH	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
----	(1)	----	(3)	----	(18)
----	(1)	----	(3)	----	(3)
MONTHLY SUMMARY (JAN)					
MN	691875.	553860.	415125.	1228144.	64648.
MX	1776538.	1006540.	682813.	2701256.	64648.
SM	478364480.	377932192.	281947008.	936999104.	31806630.
AV	972286.	768155.	573063.	1904470.	64648.
MONTHLY SUMMARY (FEB)					
MN	632960.	506556.	379776.	1132605.	64648.
MX	1413205.	953701.	682813.	2938528.	64648.
SM	438156896.	346102944.	258160144.	855444544.	28703540.
AV	986840.	779511.	581442.	1926677.	64648.
MONTHLY SUMMARY (MAR)					
MN	908338.	727898.	545003.	1020715.	64648.
MX	1901428.	1024457.	682813.	2175210.	64648.
SM	517894272.	404728928.	300986720.	795071552.	30255086.
AV	1106612.	864805.	643134.	1698871.	64648.
MONTHLY SUMMARY (APR)					
MN	937265.	751183.	562359.	751731.	64648.
MX	2109139.	1059606.	682813.	2051875.	64648.
SM	629455552.	438190752.	316353888.	617490240.	30255086.
AV	1344991.	936305.	675970.	1319424.	64648.
MONTHLY SUMMARY (MAY)					
MN	1090128.	874349.	654077.	702179.	61792.
MX	2899371.	1210732.	682813.	1576256.	64648.
SM	789316544.	485240512.	335833568.	501597984.	31776204.
AV	1604302.	986261.	682589.	1019508.	64586.
MONTHLY SUMMARY (JUN)					
MN	1384177.	949434.	682813.	699064.	61518.
MX	3163240.	1274939.	682813.	1043111.	64648.
SM	927032768.	482290688.	311362752.	363033088.	29382352.
AV	2032967.	1057655.	682813.	796125.	64435.
MONTHLY SUMMARY (JUL)					
MN	1542191.	972581.	682813.	701226.	61708.
MX	3262543.	1275740.	682813.	879275.	64648.
SM	1128647808.	551956416.	344137792.	380571360.	32485686.
AV	2239381.	1095152.	682813.	755102.	64456.

	HERM-REC -CHLR LOAD BTU/HR ---- (1)	HERM-REC -CHLR ELECTRIC USE BTU/HR ---- (3)	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR ---- (18)	STM-BOIL ER LOAD BTU/HR ---- (1)	STM-BOIL ER ELECTRIC USE BTU/HR ---- (3)
MONTHLY SUMMARY (AUG)					
MN	1432806.	956579.	682813.	653014.	57465.
MX	3592429.	1322721.	682813.	1000436.	64648.
SM	1034400000.	507029920.	319556512.	359288448.	30136386.
AV	2210257.	1083397.	682813.	767710.	64394.
MONTHLY SUMMARY (SEP)					
MN	1217109.	924744.	682813.	717531.	63143.
MX	2931510.	1223276.	682813.	1161363.	64648.
SM	904879552.	484514816.	319556512.	376723680.	30240616.
AV	1933503.	1035288.	682813.	804965.	64617.
MONTHLY SUMMARY (OCT)					
MN	1043358.	836645.	626015.	742708.	64648.
MX	2352478.	1139826.	682813.	1579706.	64648.
SM	753210816.	486767168.	343803584.	508558848.	32582402.
AV	1494466.	965808.	682150.	1009045.	64648.
MONTHLY SUMMARY (NOV)					
MN	892407.	715077.	535444.	729012.	64153.
MX	2334289.	1100857.	682813.	1910953.	64648.
SM	593284160.	435893920.	319190752.	661522880.	31030004.
AV	1236009.	908112.	664981.	1378173.	64646.
MONTHLY SUMMARY (DEC)					
MN	739836.	592389.	443902.	913630.	64648.
MX	1539367.	972169.	682813.	2237186.	64648.
SM	512530048.	400700064.	298113696.	860915136.	31806628.
AV	1041728.	814431.	605922.	1749828.	64648.
YEARLY SUMMARY					
MN	632960.	506556.	379776.	653014.	57465.
MX	3592429.	1322721.	682813.	2938528.	64648.
SM	8707173376.	5401348096.	3749003264.	7217216512.	370460608.
AV	1517987.	941658.	653592.	1258232.	64585.

ECO-3

Dist
Rec'd
11/14/96
1570
- peak

MMDDHH	OSSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----	(33)	----	(33)	----	(33)
MONTHLY SUMMARY (JAN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (FEB)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4193.466	1821.082	5232.052	3053.513	11514.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	5076.302	2204.468	6333.536	3696.357	13938.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (APR)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (MAY)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUN)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4855.593	2108.621	6058.165	3535.646	13332.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (JUL)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500

MODEL BE
INTERACTED W/ EDO
REPORT 11
ON-PEAK '1) SENSE

	0SSTMDX	1SSTMDX	2SSTMDX	3SSTMDX	4SSTMDXC LN
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)
MONTHLY SUMMARY (AUG)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	5076.302	2204.468	6333.536	3696.357	13938.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (SEP)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (OCT)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (NOV)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4414.175	1916.928	5507.423	3214.224	12120.000
AV	18.392	7.987	22.948	13.393	50.500
MONTHLY SUMMARY (DEC)					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	4634.884	2012.775	5782.794	3374.935	12726.000
AV	18.392	7.987	22.948	13.393	50.500
YEARLY SUMMARY					
MN	18.392	7.987	22.948	13.393	50.500
MX	18.392	7.987	22.948	13.393	50.500
SM	55618.609	24153.299	69393.523	40499.219	152712.000
AV	18.392	7.987	22.948	13.393	50.500

DOE-2.1D 7/ 2/1996 10:10:51 PDL RUN 1
FTMOBB0-STM(UH&AHU W/DX)4CLN REHT&HTON24
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:10:51 PDL RUN 1
PTMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	9985.1	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	9985.1	100.0
TOTAL LOAD ON PLANT	9985.1	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	15871.3	100.0
LOAD SATISFIED	15871.3	100.0
TOTAL LOAD ON PLANT	15871.3	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	21900.3	100.0
LOAD SATISFIED	21900.3	100.0
TOTAL LOAD ON PLANT	21900.3	

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

HZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:10:51 PDL RUN 1
 FTM0BB0-SIM(UH&AHU W/DX)4CLN REHT&TON24
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	9985.1	9985.1	0.000	0.000	0
COOLING LOADS	15871.3	15871.3	0.000	0.000	0
ELECTRICAL LOADS	21900.3	21900.3	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:10:51 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOBBO-STM(UH&AHU W/DX)4CLN REHT&HTON24
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	550.53	15151.64	0.00
SPACE COOL	8734.99	0.00	0.00
HVAC AUX	4964.14	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	3040.82	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	4610.08	0.00	0.00
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TOTAL	21900.56	15151.64	0.00

TOTAL SITE ENERGY	37051.90 MBTU	313.2 KBTU/SQFT-YR GROSS-AREA	313.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	80918.21 MBTU	684.0 KBTU/SQFT-YR GROSS-AREA	684.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
	----(1)	----(3)	----(18)	----(1)	----(3)
MONTHLY SUMMARY (JAN)					
MN	1090060.	874295.	654036.	843995.	64648.
MX	2092040.	1051559.	682813.	2331893.	64648.
SM	396929760.	246212368.	172026960.	373617344.	16291196.
AV	1575118.	977033.	682647.	1482609.	64648.
MONTHLY SUMMARY (FEB)					
MN	1066818.	855555.	640091.	879423.	64648.
MX	2137164.	1057932.	682813.	2028587.	64648.
SM	378973952.	225648704.	155638624.	310870944.	14739654.
AV	1662167.	989687.	682626.	1363469.	64648.
MONTHLY SUMMARY (MAR)					
MN	1409930.	953220.	682813.	603527.	53110.
MX	2595265.	1132922.	682813.	1882990.	64648.
SM	503283328.	279652096.	188456384.	323352768.	17740418.
AV	1823490.	1013232.	682813.	1171568.	64277.
MONTHLY SUMMARY (APR)					
MN	1487801.	964636.	682813.	572333.	50365.
MX	3085316.	1226198.	682813.	1603004.	64648.
SM	543496640.	268037312.	172068864.	220453056.	15467528.
AV	2156733.	1063640.	682813.	874814.	61379.
MONTHLY SUMMARY (MAY)					
MN	1663845.	990265.	682813.	565358.	49752.
MX	3828865.	1365767.	682813.	1221351.	64648.
SM	634489920.	283589248.	172068864.	177477984.	14619943.
AV	2517817.	1125354.	682813.	704278.	58016.
MONTHLY SUMMARY (JUN)					
MN	2060614.	1047111.	682813.	558144.	49117.
MX	4349201.	1502434.	682813.	722833.	63609.
SM	825904000.	324826144.	180262624.	161565600.	14217774.
AV	3128424.	1230402.	682813.	611991.	53855.
MONTHLY SUMMARY (JUL)					
MN	2249004.	1077488.	682813.	557458.	49056.
MX	4166256.	1432733.	682813.	662837.	58330.
SM	797411840.	303306304.	163875104.	145165008.	12774517.
AV	3322549.	1263776.	682813.	604854.	53227.

	HERM-REC -CHLR LOAD BTU/HR	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER LOAD BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR
	---- (1)	---- (3)	---- (18)	---- (1)	---- (3)
MONTHLY SUMMARY (AUG)					
MN	2200348.	1066827.	682813.	556143.	48941.
MX	4552086.	1491854.	682813.	684637.	60248.
SM	930409472.	350816256.	188456384.	167303344.	14722696.
AV	3371049.	1271073.	682813.	606172.	53343.
MONTHLY SUMMARY (SEP)					
MN	1840372.	1015714.	682813.	549405.	48348.
MX	4068729.	1368927.	682813.	866564.	64648.
SM	709604608.	293925536.	172068864.	159246352.	13988820.
AV	2815891.	1166371.	682813.	631930.	55511.
MONTHLY SUMMARY (OCT)					
MN	1639723.	986768.	682813.	593263.	52207.
MX	3273143.	1241670.	682813.	1187933.	64648.
SM	549318592.	259346032.	163875104.	168493280.	14202739.
AV	2288828.	1080609.	682813.	702055.	59178.
MONTHLY SUMMARY (NOV)					
MN	1424527.	955364.	682813.	584214.	51411.
MX	3531256.	1284191.	682813.	1557907.	64648.
SM	474993984.	248784352.	163875104.	227616032.	15094358.
AV	1979142.	1036601.	682813.	948400.	62893.
MONTHLY SUMMARY (DEC)					
MN	1219585.	925111.	682813.	622168.	54751.
MX	2427751.	1098571.	682813.	1835065.	64648.
SM	419273440.	249506352.	172068864.	332685888.	16242543.
AV	1663784.	990105.	682813.	1320182.	64455.
YEARLY SUMMARY					
MN	1066818.	855555.	640091.	549405.	48348.
MX	4552086.	1502434.	682813.	2331893.	64648.
SM	7164089344.	3333650688.	2064741632.	2767847424.	180102176.
AV	2369077.	1102398.	682785.	915293.	59558.

ED-E
 CAB
 Reliance
 Inter-Action
 5/1/96
 J. J. Peak

MMDDHH	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWELB V	0SDXHT	0SDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (JAN)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9939.382	5061.797	10655.630	7269.405	26612.115	0.384	1.919	725.307	1082.203
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (FEB)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	8969.687	4567.963	9616.056	6560.194	24015.811	0.346	1.732	654.545	976.622
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (APR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9454.534	4814.880	10135.844	6914.800	25313.963	0.365	1.825	689.926	1029.413
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAY)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	9939.382	5061.797	10655.630	7269.404	26612.115	0.187	0.936	725.307	1082.203
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (JUN)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	9212.109	4691.421	9875.950	6737.497	24664.885	0.000	0.000	672.235	1003.018
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (JUL)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	10181.806	5185.255	10915.524	7446.708	27261.189	0.000	0.000	742.997	1108.599
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200

MOOSE 2-3
 IN-LOAD W/
 W/25%
 REDUCTION
 J. J. Peak
 7/1/96

	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)	----(33)
MONTHLY SUMMARY (AUG)									
MN 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 9454.534		4814.880	10135.844	6914.799	25313.963	0.000	0.000	689.926	1029.413
AV 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (SEP)									
MN 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 9454.534		4814.880	10135.844	6914.800	25313.961	0.000	0.000	689.926	1029.413
AV 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (OCT)									
MN 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 10181.806		5185.255	10915.524	7446.708	27261.191	0.197	0.983	742.997	1108.598
AV 20.202		10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (NOV)									
MN 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 9696.958		4938.338	10395.737	7092.102	25963.037	0.374	1.872	707.616	1055.808
AV 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (DEC)									
MN 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 9939.382		5061.797	10655.631	7269.405	26612.113	0.384	1.919	725.307	1082.203
AV 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
YEARLY SUMMARY									
MN 20.202		10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202		10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 115878.648		59013.141	124229.055	84750.625	310258.313	2.602	13.010	8456.014	12616.906
AV 20.202		10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200

DOE-2.1D 7/ 2/1996 11:12:21 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

[illegible]

KNTCH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EEZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:12:21 PDL RUN 1
FIMOCAL3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	644.6	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	644.6	100.0
TOTAL LOAD ON PLANT	644.6	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HEM-REC-CHLR	16276.7	100.0
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	26094.1	100.0
LOAD SATISFIED	26094.1	100.0
TOTAL LOAD ON PLANT	26094.1	

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:12:21 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	644.6	644.6	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26094.1	26094.1	0.000	0.000	0

ENTECH ENGINEERING BZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 11:12:21 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOCAJ - DX COOL W/HW & PER HW - .1BTUH
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	37.39	988.18	0.00
SPACE COOL	7908.28	0.00	0.00
HVAC AUX	4941.25	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	4983.86	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	8224.01	0.00	0.00
	-----	-----	-----
TOTAL	26094.79	988.18	0.00

TOTAL SITE ENERGY	27082.28 MBTU	210.8 KBTU/SQFT-YR GROSS-AREA	210.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	79348.79 MBTU	617.6 KBTU/SQFT-YR GROSS-AREA	617.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 11.6
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR
	----	----	----	----
	(3)	(18)	(3)	(4)

MONTHLY SUMMARY (JAN)

MN	535361.	401088.	1453.	28067.
MX	876201.	583796.	12738.	752714.
SM	358254432.	263037744.	5812172.	171351728.
AV	728159.	534630.	11813.	348276.

MONTHLY SUMMARY (FEB)

MN	527142.	394952.	504.	9743.
MX	875766.	583796.	12738.	751541.
SM	327136096.	239127616.	5195205.	159578688.
AV	736793.	538576.	11701.	359411.

MONTHLY SUMMARY (MAR)

MN	631776.	473001.	504.	9743.
MX	900159.	583796.	12738.	572733.
SM	367624640.	266104240.	5025957.	127170360.
AV	785523.	568599.	10739.	271732.

MONTHLY SUMMARY (APR)

MN	661938.	495478.	504.	9743.
MX	923082.	583796.	12738.	499937.
SM	382968384.	271392160.	2160246.	48507240.
AV	818309.	579898.	4616.	103648.

MONTHLY SUMMARY (MAY)

MN	743947.	556541.	0.	0.
MX	975469.	583796.	12738.	263479.
SM	413771104.	287143520.	379107.	7338990.
AV	840998.	583625.	771.	14917.

MONTHLY SUMMARY (JUN)

MN	798306.	583796.	0.	0.
MX	1003135.	583796.	0.	0.
SM	396264192.	266210880.	0.	0.
AV	869000.	583796.	0.	0.

MONTHLY SUMMARY (JUL)

MN	804028.	583796.	0.	0.
MX	992180.	583796.	0.	0.
SM	441250368.	294233088.	0.	0.
AV	875497.	583796.	0.	0.

EMTECH ENGINEERING
READING, PA 19603
RP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 11:12:21 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
PAGE 2- 1

	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR
	----(3)	----(18)	----(3)	----(4)
MONTHLY SUMMARY (AUG)				
MN	788823.	583796.	0.	0.
MX	991107.	583796.	0.	0.
SM	405776256.	273216416.	0.	0.
AV	867043.	583796.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	781980.	583796.	0.	0.
MX	948940.	583796.	0.	0.
SM	397793312.	273216416.	0.	0.
AV	849986.	583796.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	683149.	511279.	0.	0.
MX	907671.	583796.	12738.	331199.
SM	415276384.	293634560.	641723.	12790114.
AV	823961.	582608.	1273.	25377.
MONTHLY SUMMARY (NOV)				
MN	626375.	468976.	504.	9743.
MX	922674.	583796.	12738.	526275.
SM	380792512.	274897728.	3636822.	83659400.
AV	793318.	572704.	7577.	174290.
MONTHLY SUMMARY (DEC)				
MN	546128.	409124.	504.	9743.
MX	885942.	583796.	12738.	580262.
SM	370277664.	270221984.	5661317.	163917632.
AV	752597.	549232.	11507.	333166.
YEARLY SUMMARY				
MN	527142.	394952.	0.	0.
MX	1003135.	583796.	12738.	752714.
SM	4657185792.	3272436736.	28512548.	774314176.
AV	811922.	570509.	4971.	134992.

ECO-3

MMDDHH	1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHMONLY	04SHWELE V	OSDXHT	OSDXNOHT
	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
----	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(33)
MONTHLY SUMMARY (JAN)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (FEB)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	4606.056	2345.709	4937.974	3368.748	12332.442	0.178	0.889	336.118	501.509
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5575.751	2839.543	5977.548	4077.958	14928.747	0.215	1.076	406.879	607.090
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (APR)									
MN	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (MAY)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM	5090.904	2592.626	5457.761	3723.353	13630.595	0.094	0.468	371.498	554.299
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (JUN)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	5333.328	2716.085	5717.655	3900.655	14279.671	0.000	0.000	389.189	580.694
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (JUL)									
MN	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM	4848.480	2469.168	5197.868	3546.050	12981.519	0.000	0.000	353.808	527.904
AV	20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200

"100% - 35%
 INFILTRATION
 W/25%
 REDUCED
 IN-FELK
 1/25/96

1SDXHT	1SDX	2SDX	3SDX	4SDX	1SHWONLY	04SHWBLE V	0SDXHT	0SDXNOHT
TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW	TOT FAN ELECTRIC KW
---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)	---- (33)
MONTHLY SUMMARY (AUG)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 5575.751	2839.543	5977.548	4077.958	14928.747	0.000	0.000	406.879	607.090
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (SEP)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
SM 5090.904	2592.626	5457.761	3723.353	13630.595	0.000	0.000	371.498	554.299
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MONTHLY SUMMARY (OCT)								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 4848.480	2469.168	5197.868	3546.050	12981.519	0.103	0.515	353.808	527.904
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200
MONTHLY SUMMARY (NOV)								
MN 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 4848.480	2469.168	5197.868	3546.050	12981.519	0.187	0.936	353.808	527.904
AV 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MONTHLY SUMMARY (DEC)								
MN 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 5090.904	2592.626	5457.761	3723.353	13630.595	0.197	0.983	371.498	554.299
AV 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
YEARLY SUMMARY								
MN 20.202	10.288	21.658	14.775	54.090	0.000	0.000	1.474	2.200
MX 20.202	10.288	21.658	14.775	54.090	0.001	0.004	1.474	2.200
SM 61090.844	31111.520	65493.133	44680.230	163567.141	1.367	6.833	4457.981	6651.591
AV 20.202	10.288	21.658	14.775	54.090	0.000	0.002	1.474	2.200

FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EEZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:31:40 PDL RUN 1
PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
STM-BOILER	644.6	100.0
DHW-HEATER	0.0	0.0
LOAD SATISFIED	644.6	100.0
TOTAL LOAD ON PLANT	644.6	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
HERM-REC-CHLR	16276.7	100.0
LOAD SATISFIED	16276.7	100.0
TOTAL LOAD ON PLANT	16276.7	

ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	26094.1	100.0
LOAD SATISFIED	26094.1	100.0
TOTAL LOAD ON PLANT	26094.1	

ENTECH ENGINEERING ESDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:31:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	644.6	644.6	0.000	0.000	0
COOLING LOADS	16276.7	16276.7	0.027	0.018	2
ELECTRICAL LOADS	26094.1	26094.1	0.000	0.000	0

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 10:31:40 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FIMOC3 - DX COOL W/HW & PER HW -.1BTUH
 REPORT- BBPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL	NATURAL-GAS
CATEGORY OF USE			
SPACE HEAT	37.39	988.18	0.00
SPACE COOL	7908.28	0.00	0.00
HVAC AUX	4941.25	0.00	0.00
DOM HOT WTR	0.00	0.00	0.00
AUX SOLAR	0.00	0.00	0.00
LIGHTS	4983.86	0.00	0.00
VERT TRANS	0.00	0.00	0.00
MISC EQUIP	8224.01	0.00	0.00
	-----	-----	-----
TOTAL	26094.79	988.18	0.00

TOTAL SITE ENERGY	27082.28 MBTU	210.8 KBTU/SQFT-YR GROSS-AREA	210.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	79348.79 MBTU	617.6 KBTU/SQFT-YR GROSS-AREA	617.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 11.6
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

ENTECH ENGINEERING
READING, PA 19603
RP_1 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 10:31:40 PDL RUN 1
FTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

PAGE 1- 1

MMDDHH	HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR
----	(3)	----(18)	----(3)	----(4)

MONTHLY SUMMARY (JAN)

MN	937605.	583796.	504.	9743.
MX	1082899.	583796.	12738.	743884.
SM	256205232.	147116464.	2096942.	59470712.
AV	1016687.	583796.	8321.	235995.

MONTHLY SUMMARY (FEB)

MN	928071.	583796.	504.	9743.
MX	1088467.	583796.	12738.	507220.
SM	233673600.	133105368.	1585027.	35263052.
AV	1024884.	583796.	6952.	154663.

MONTHLY SUMMARY (MAR)

MN	957016.	583796.	504.	9743.
MX	1122546.	583796.	12738.	512098.
SM	287182592.	161127568.	1530656.	35519956.
AV	1040517.	583796.	5546.	128695.

MONTHLY SUMMARY (APR)

MN	966029.	583796.	504.	9743.
MX	1183155.	583796.	12738.	355173.
SM	268408896.	147116464.	477441.	9757922.
AV	1065115.	583796.	1895.	38722.

MONTHLY SUMMARY (MAY)

MN	985677.	583796.	0.	0.
MX	1238328.	583796.	4407.	85109.
SM	275527424.	147116464.	78084.	1508007.
AV	1093363.	583796.	310.	5984.

MONTHLY SUMMARY (JUN)

MN	1016320.	583796.	0.	0.
MX	1304448.	583796.	0.	0.
SM	298948832.	154122016.	0.	0.
AV	1132382.	583796.	0.	0.

MONTHLY SUMMARY (JUL)

MN	1026370.	583796.	0.	0.
MX	1258694.	583796.	0.	0.
SM	274606400.	140110912.	0.	0.
AV	1144193.	583795.	0.	0.

ENTECH ENGINEERING
READING, PA 19603
RP_1 - HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ
DOE-2.1D 7/ 2/1996 10:31:40 PDL RUN 1
PTMOCA3 - DX COOL W/HW & PER HW -.1BTUH

PAGE 2- 1

HERM-REC -CHLR ELECTRIC USE BTU/HR	HERM-REC -CHLR CONDENSER FAN ELEC BTU/HR	STM-BOIL ER ELECTRIC USE BTU/HR	STM-BOIL ER FUEL USE BTU/HR
---- (3)	---- (18)	---- (3)	---- (4)
MONTHLY SUMMARY (AUG)			
MN 1013925.	583796.	0.	0.
MX 1280765.	583796.	0.	0.
SM 315750784.	161127568.	0.	0.
AV 1144025.	583796.	0.	0.
MONTHLY SUMMARY (SEP)			
MN 993271.	583796.	0.	0.
MX 1207949.	583796.	0.	0.
SM 276855072.	147116464.	0.	0.
AV 1098631.	583796.	0.	0.
MONTHLY SUMMARY (OCT)			
MN 975607.	583796.	0.	0.
MX 1167410.	583796.	8246.	159243.
SM 255514720.	140110912.	124763.	2409484.
AV 1064645.	583795.	520.	10040.
MONTHLY SUMMARY (NOV)			
MN 963000.	583796.	504.	9743.
MX 1164715.	583796.	12738.	428717.
SM 250589440.	140110912.	926197.	19805388.
AV 1044123.	583795.	3859.	82522.
MONTHLY SUMMARY (DEC)			
MN 945033.	583796.	504.	9743.
MX 1107379.	583796.	12738.	563442.
SM 257862176.	147116464.	2059144.	50143764.
AV 1023263.	583796.	8171.	198983.
YEARLY SUMMARY			
MN 928071.	583796.	0.	0.
MX 1304448.	583796.	12738.	743884.
SM 3251125248.	1765397376.	8878254.	213878272.
AV 1075108.	583795.	2936.	70727.

EC-3

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

ESDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/17/1996 22:49: 3 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	----- MON		-----		-----		-----		-----	
			DAY	HR	SIZE	OPER	SIZE	OPER	SIZE	OPER	SIZE	OPER
					(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.147	4.712	2 20 3		4.712	5088						
HERM-CENT-CHLR	0.307	7.282	8 18 15		7.800	3672						
COOLING-TWR	0.306	8.784	8 18 15		2.400	14688						

TOWER FAN

Oil-Pump 'Jesse

ENTECH ENGINEERING E2DOS - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/17/1996 22:49: 3 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE		
IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2659.66	0.00
HVAC AUX	5352.53	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.61	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.42	0.00
	-----	-----
TOTAL	23021.24	5128.55

TOTAL SITE ENERGY	28149.62 MBTU	85.4 KBTU/SQFT-YR GROSS-AREA	85.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74261.00 MBTU	225.4 KBTU/SQFT-YR GROSS-AREA	225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (20)	---- (21)
MONTHLY SUMMARY (MAY)				
MN	302722.	142762.	15251.	90465.
MX	6348487.	1258375.	141426.	90465.
SM	392043168.	81835792.	12712080.	11941428.
AV	2970024.	619968.	96304.	90465.
MONTHLY SUMMARY (JUN)				
MN	830509.	372988.	16700.	90465.
MX	7271629.	1507925.	141426.	90465.
SM	1194551552.	232249792.	35530404.	23882852.
AV	4524817.	879734.	134585.	90465.
MONTHLY SUMMARY (JUL)				
MN	1498392.	430245.	94161.	90465.
MX	7050099.	1439141.	141426.	90465.
SM	1191595264.	228490976.	33845808.	21711684.
AV	4964981.	952046.	141024.	90465.
MONTHLY SUMMARY (AUG)				
MN	815628.	371830.	32452.	90465.
MX	7281769.	1502584.	141426.	90465.
SM	1154552192.	262494784.	38635008.	24968436.
AV	4907798.	951068.	139982.	90465.
MONTHLY SUMMARY (SEP)				
MN	355402.	167667.	15417.	90465.
MX	6235474.	1243838.	141426.	90465.
SM	863843136.	175046640.	28207500.	22797268.
AV	3427949.	694630.	111935.	90465.
MONTHLY SUMMARY (OCT)				
MN	357490.	168654.	15424.	90465.
MX	5014499.	925695.	141426.	90465.
SM	179807184.	47662560.	6271389.	9770260.
AV	1664881.	441320.	58068.	90465.
YEARLY SUMMARY				
MN	302722.	142762.	15251.	90465.
MX	7281769.	1507925.	141426.	90465.
SM	5176392704.	1027780480.	155202192.	115071920.
AV	4069491.	808004.	122014.	90465.

ECO-3

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PV-A EQUIPMENT SIZES

E2DOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
 FIMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	4.712	1 1										
HERM-CENT-CHLR	7.800	1 1										
COOLING-TWR	2.400	4 4										

Tower FAN

022-1/2" x 1/2" x 1/2"

ENTECH ENGINEERING ESDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)									
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	-	110+	-----	-----	-----	-----
HW-BOILER	2851		617		617		459		307		134		57		32		9		4		1		5088	3532.8	0.0	229.0	5128.5
	2851		617		617		459		307		134		57		32		9		4		1						
HERM-CENT-CHLR	1092		504		749		469		313		339		170		36		0		0		0		3672	8802.2	0.0	1986.8	0.0
	1092		504		749		469		313		339		170		36		0		0		0						
COOLING-TWR	1170		657		551		317		141		109		119		125		111		87		285		3672	10789.1	0.0	672.8	0.0
	1170		657		551		317		141		109		119		125		111		87		285						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 177.2 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 950.4 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3532.8	100.0
-----	-----	-----
LOAD SATISFIED	3532.8	100.0
TOTAL LOAD ON PLANT	3532.8	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8802.2	100.0
-----	-----	-----
LOAD SATISFIED	8802.2	100.0
TOTAL LOAD ON PLANT	8802.2	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	23021.1	100.0
-----	-----	-----
LOAD SATISFIED	23021.1	100.0
TOTAL LOAD ON PLANT	23020.8	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
 MAXIMUM TOWER EXIT TEMPERATURE = 86.F

ENTTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
 FIMOACO - SIM MCA H2O ONLY W/OA SCHED1
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3532.8	3532.8	0.000	0.000	0
COOLING LOADS	8802.2	8802.2	0.000	0.000	0
ELECTRICAL LOADS	23020.8	23021.1	0.000	0.000	0

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/17/1996 21:21:25 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2659.66	0.00
HVAC AUX	5352.53	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.61	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.42	0.00
	-----	-----
TOTAL	23021.24	5128.55

TOTAL SITE ENERGY	28149.62 MBTU	85.4 KBTU/SQFT-YR GROSS-AREA	85.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74261.00 MBTU	225.4 KBTU/SQFT-YR GROSS-AREA	225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELSC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
----	(1)	----	(3)	----
----	(20)	----	(21)	

MONTHLY SUMMARY (MAY)

MN	302722.	142762.	15251.	90465.
MX	5349443.	1003505.	141426.	90465.
SM	200589872.	67524968.	8439609.	22797268.
AV	795992.	267956.	33491.	90465.

MONTHLY SUMMARY (JUN)

MN	302722.	142762.	15251.	90465.
MX	4387579.	852452.	141426.	90465.
SM	799004608.	201814432.	41061692.	41252200.
AV	1752203.	442576.	90048.	90465.

MONTHLY SUMMARY (JUL)

MN	302722.	142762.	16165.	90465.
MX	4323691.	845941.	141426.	90465.
SM	1085108224.	256985568.	55622060.	45594536.
AV	2152993.	509892.	110361.	90465.

MONTHLY SUMMARY (AUG)

MN	302722.	142762.	15419.	90465.
MX	4581775.	923552.	141426.	90465.
SM	870181440.	218158096.	44604648.	42337780.
AV	1859362.	466150.	95309.	90465.

MONTHLY SUMMARY (SEP)

MN	302722.	142762.	15251.	90465.
MX	3330085.	669181.	141426.	90465.
SM	558887744.	166953456.	29791260.	42337784.
AV	1194205.	356738.	63657.	90465.

MONTHLY SUMMARY (OCT)

MN	302722.	142762.	15251.	90465.
MX	2663557.	566678.	141426.	90465.
SM	112066016.	47639172.	5857014.	22797272.
AV	444706.	189044.	23242.	90465.

YEARLY SUMMARY

MN	302722.	142762.	15251.	90465.
MX	5349443.	1003505.	141426.	90465.
SM	3625837824.	959075712.	185376272.	217116832.
AV	1510766.	399615.	77240.	90465.

ECO-3

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2: 7:39 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2803.02	0.00
HVAC AUX	5352.51	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.58	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.41	0.00

TOTAL	23164.53	5128.55

How
Single Speed
Reacts

TOTAL SITE ENERGY	28292.98 MBTU	85.9 KBTU/SQFT-YR GROSS-AREA	85.9 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74691.53 MBTU	226.7 KBTU/SQFT-YR GROSS-AREA	226.7 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR PANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
525 1	618332.	292245.	910577.	4.	4.	65.0	113321.	90465.	0.8013
525 2	411510.	194213.	605723.	4.	4.	65.0	109160.	90465.	0.7718
525 3	437646.	206585.	644231.	4.	4.	65.0	109710.	90465.	0.7757
525 4	459344.	216860.	676205.	4.	4.	65.0	110161.	90465.	0.7789
525 5	431755.	203796.	635551.	4.	4.	65.0	109586.	90465.	0.7749
525 6	631318.	298410.	929728.	4.	4.	65.0	113568.	90465.	0.8030
525 7	1706845.	450241.	2157086.	4.	4.	65.0	126525.	90465.	0.8946
525 8	2762013.	567236.	3329249.	4.	4.	65.0	134911.	90465.	0.9539
525 9	3854814.	716778.	4571592.	4.	4.	65.0	141038.	90465.	0.9973
52510	4301003.	786343.	5087345.	4.	4.	65.1	141426.	90465.	1.0000
52511	4666796.	847285.	5514080.	4.	4.	65.8	141426.	90465.	1.0000
52512	4869973.	884564.	5754538.	4.	4.	66.3	141426.	90465.	1.0000
52513	5409071.	984728.	6393799.	4.	4.	68.6	141426.	90465.	1.0000
52514	4793663.	879746.	5673409.	4.	4.	67.3	141426.	90465.	1.0000
52515	4132488.	765379.	4897868.	4.	4.	64.7	141426.	90465.	1.0000
52516	3212557.	624823.	3837380.	4.	4.	65.0	139695.	90465.	0.9878
52517	2672214.	556242.	3228457.	4.	4.	65.0	138876.	90465.	0.9820
52518	2226339.	504528.	2730867.	4.	4.	65.0	138668.	90465.	0.9805
52519	1382371.	419556.	1801927.	4.	4.	65.0	132897.	90465.	0.9397
52520	1186833.	402250.	1589082.	4.	4.	65.0	131311.	90465.	0.9285
52521	1013197.	387625.	1400821.	4.	4.	65.0	126306.	90465.	0.8931
52522	848518.	374397.	1222915.	4.	4.	65.0	124635.	90465.	0.8813
52523	762992.	360986.	1123978.	4.	4.	65.0	123661.	90465.	0.8744
52524	654281.	309315.	963596.	4.	4.	65.0	114002.	90465.	0.8061
DAILY SUMMARY (MAY 25)									
MN	411510.	194213.	605723.	4.	4.	64.7	109160.	90465.	0.7718
MX	5409071.	984728.	6393799.	4.	4.	68.6	141426.	90465.	1.0000
SM	53445864.	12234129.	65680004.	96.	96.	1567.8	3086590.	2171169.	21.8247
AV	2226911.	509755.	2736667.	4.	4.	65.3	128608.	90465.	0.9094

EMTECH ENGINEERING
READING, PA 19603
RP_1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/18/1996 2: 7:39 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

PAGE 2- 1

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
526 1	624341.	295098.	919438.	4.	4.	65.0	113436.	90465.	0.8021
526 2	578325.	273260.	851585.	4.	4.	65.0	112549.	90465.	0.7958
526 3	470532.	222160.	692692.	4.	4.	65.0	110392.	90465.	0.7806
526 4	427352.	201711.	629063.	4.	4.	65.0	109494.	90465.	0.7742
526 5	436795.	206182.	642977.	4.	4.	65.0	109692.	90465.	0.7756
526 6	838944.	373647.	1212591.	4.	4.	65.0	124535.	90465.	0.8806
526 7	3627962.	683317.	4311280.	4.	4.	68.7	141426.	90465.	1.0000
526 8	4515940.	832542.	5348482.	4.	4.	72.3	141426.	90465.	1.0000
526 9	4959050.	925133.	5884183.	4.	4.	74.5	141426.	90465.	1.0000
52610	5139727.	970342.	6110069.	4.	4.	75.6	141426.	90465.	1.0000
52611	5441774.	1035158.	6476932.	4.	4.	76.8	141426.	90465.	1.0000
52612	5838525.	1124508.	6963033.	4.	4.	78.2	141426.	90465.	1.0000
52613	6225351.	1218847.	7444198.	4.	4.	79.6	141426.	90465.	1.0000
52614	6348487.	1258375.	7606862.	4.	4.	79.8	141426.	90465.	1.0000
52615	6132609.	1211687.	7344296.	4.	4.	80.3	141426.	90465.	1.0000
52616	5372993.	1054609.	6427603.	4.	4.	79.1	141426.	90465.	1.0000
52617	4961285.	965807.	5927092.	4.	4.	77.7	141426.	90465.	1.0000
52618	4347851.	846228.	5194078.	4.	4.	76.9	141426.	90465.	1.0000
52619	3761942.	745937.	4507880.	4.	4.	76.2	141426.	90465.	1.0000
52620	3355095.	681606.	4036701.	4.	4.	76.0	140809.	90465.	0.9956
52621	3099357.	644638.	3743995.	4.	4.	75.0	140207.	90465.	0.9914
52622	3000988.	627077.	3628066.	4.	4.	75.0	139680.	90465.	0.9877
52623	2668355.	583710.	3252065.	4.	4.	74.0	138604.	90465.	0.9800
52624	2508545.	560278.	3068822.	4.	4.	74.0	137656.	90465.	0.9733
DAILY SUMMARY (MAY 26)									
MN	427352.	201711.	629063.	4.	4.	65.0	109494.	90465.	0.7742
MX	6348487.	1258375.	7606862.	4.	4.	80.3	141426.	90465.	1.0000
SM	84682128.	17541858.	102223976.	96.	96.	1759.9	3215597.	2171169.	22.7369
AV	3528422.	730911.	4259333.	4.	4.	73.3	133983.	90465.	0.9474
MONTHLY SUMMARY (MAY)									
MN	411510.	194213.	605723.	4.	4.	64.7	109160.	90465.	0.7718
MX	6348487.	1258375.	7606862.	4.	4.	80.3	141426.	90465.	1.0000
SM	138128000.	29775988.	167903984.	192.	192.	3327.7	6302187.	4342338.	44.5616
AV	2877667.	620333.	3498000.	4.	4.	69.3	131296.	90465.	0.9284

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	---- (1)	---- (3)	---- (1)	---- (6)	---- (9)	---- (19)	---- (20)	---- (21)	---- (23)
613 1	1978521.	499272.	2477793.	4.	4.	74.0	134203.	90465.	0.9489
613 2	1961302.	497405.	2458708.	4.	4.	74.0	134081.	90465.	0.9481
613 3	1876837.	488353.	2365190.	4.	4.	74.0	133470.	90465.	0.9437
613 4	1812907.	481616.	2294523.	4.	4.	74.0	132996.	90465.	0.9404
613 5	1836007.	484039.	2320046.	4.	4.	75.0	132231.	90465.	0.9350
613 6	2841241.	605906.	3447147.	4.	4.	75.0	138819.	90465.	0.9816
613 7	4415719.	842722.	5258441.	4.	4.	77.0	141426.	90465.	1.0000
613 8	5238986.	1004274.	6243259.	4.	4.	78.9	141426.	90465.	1.0000
613 9	5833208.	1139176.	6972384.	4.	4.	80.6	141426.	90465.	1.0000
61310	6349579.	1267680.	7617259.	4.	4.	82.2	141426.	90465.	1.0000
61311	6600368.	1341880.	7942248.	4.	4.	82.6	141426.	90465.	1.0000
61312	7022062.	1448864.	8470926.	4.	4.	84.0	141426.	90465.	1.0000
61313	6994234.	1458491.	8452724.	4.	4.	82.4	141426.	90465.	1.0000
61314	7271629.	1507925.	8779554.	4.	4.	83.6	141426.	90465.	1.0000
61315	6310310.	1287850.	7598160.	4.	4.	79.0	141426.	90465.	1.0000
61316	5762688.	1125281.	6887969.	4.	4.	78.1	141426.	90465.	1.0000
61317	5415416.	1047087.	6462502.	4.	4.	80.0	141426.	90465.	1.0000
61318	4953252.	970333.	5923585.	4.	4.	78.5	141426.	90465.	1.0000
61319	4347997.	851085.	5199081.	4.	4.	77.7	141426.	90465.	1.0000
61320	3921492.	775505.	4696997.	4.	4.	77.2	141426.	90465.	1.0000
61321	3655017.	731102.	4386119.	4.	4.	76.9	141426.	90465.	1.0000
61322	3392706.	690490.	4083196.	4.	4.	76.0	141003.	90465.	0.9970
61323	3221664.	661677.	3883340.	4.	4.	76.0	140147.	90465.	0.9910
61324	3054979.	638549.	3693528.	4.	4.	76.0	139284.	90465.	0.9849
DAILY SUMMARY (JUN 13)									
MN	1812907.	481616.	2294523.	4.	4.	74.0	132231.	90465.	0.9350
MX	7271629.	1507925.	8779554.	4.	4.	84.0	141426.	90465.	1.0000
SM	106068112.	21846556.	127914696.	96.	96.	1872.8	3347633.	2171169.	23.6705
AV	4419505.	910273.	5329779.	4.	4.	78.0	139485.	90465.	0.9863

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP P	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----	----	----	----	----	----	----	----	----
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)
614 1	2812733.	606183.	3418916.	4.	4.	76.0	137946.	90465.	0.9754
614 2	2660563.	586604.	3247167.	4.	4.	75.0	137811.	90465.	0.9744
614 3	2611037.	576516.	3187552.	4.	4.	76.0	136729.	90465.	0.9668
614 4	2477601.	563827.	3041428.	4.	4.	76.0	135914.	90465.	0.9610
614 5	2410466.	555678.	2966144.	4.	4.	76.0	135480.	90465.	0.9580
614 6	3401448.	687409.	4088857.	4.	4.	77.0	140390.	90465.	0.9927
614 7	4922452.	944387.	5866839.	4.	4.	79.3	141426.	90465.	1.0000
614 8	5780206.	1130959.	6911166.	4.	4.	81.3	141426.	90465.	1.0000
614 9	5858298.	1165021.	7023318.	4.	4.	79.9	141426.	90465.	1.0000
61410	6107864.	1206654.	7314518.	4.	4.	80.2	141426.	90465.	1.0000
61411	6083711.	1204473.	7288184.	4.	4.	79.4	141426.	90465.	1.0000
61412	6466565.	1283649.	7750214.	4.	4.	80.8	141426.	90465.	1.0000
61413	6792395.	1373430.	8165825.	4.	4.	82.8	141426.	90465.	1.0000
61414	6678760.	1367614.	8046374.	4.	4.	81.9	141426.	90465.	1.0000
61415	5432629.	1080210.	6512839.	4.	4.	78.4	141426.	90465.	1.0000
61416	4474579.	872512.	5347091.	4.	4.	73.9	141426.	90465.	1.0000
61417	3608903.	708528.	4317432.	4.	4.	69.5	141426.	90465.	1.0000
61418	1875511.	476006.	2351517.	4.	4.	65.0	136517.	90465.	0.9653
61419	1116705.	396259.	1512964.	4.	4.	65.0	123847.	90465.	0.8757
61420	874478.	376441.	1250918.	4.	4.	65.0	124904.	90465.	0.8832
61421	734309.	347344.	1081653.	4.	4.	65.0	123235.	90465.	0.8714
61422	476221.	224855.	701076.	4.	4.	65.0	119112.	90465.	0.8422
61423	311525.	146922.	458447.	4.	4.	65.0	106988.	90465.	0.7565
61424	396137.	186937.	583074.	4.	4.	65.0	108833.	90465.	0.7695
DAILY SUMMARY (JUN 14)									
MN	311525.	146922.	458447.	4.	4.	65.0	106988.	90465.	0.7565
MX	6792395.	1373430.	8165825.	4.	4.	82.8	141426.	90465.	1.0000
SM	84365104.	18068416.	102433504.	96.	96.	1778.5	3223398.	2171169.	22.7920
AV	3515213.	752851.	4268063.	4.	4.	74.1	134308.	90465.	0.9497
MONTHLY SUMMARY (JUN)									
MN	311525.	146922.	458447.	4.	4.	65.0	106988.	90465.	0.7565
MX	7271629.	1507925.	8779554.	4.	4.	84.0	141426.	90465.	1.0000
SM	190433216.	39914972.	230348192.	192.	192.	3651.2	6571031.	4342338.	46.4625
AV	3967359.	831562.	4798921.	4.	4.	76.1	136896.	90465.	0.9680

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP P	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
818 1	2536384.	563673.	3100056.	4.	4.	74.0	137821.	90465.	0.9745
818 2	2334174.	539448.	2873622.	4.	4.	73.0	137421.	90465.	0.9717
818 3	2237630.	525018.	2762648.	4.	4.	73.0	136803.	90465.	0.9673
818 4	2064430.	505578.	2570008.	4.	4.	72.0	136575.	90465.	0.9657
818 5	1877811.	482605.	2360416.	4.	4.	71.0	136255.	90465.	0.9634
818 6	2772317.	583158.	3355475.	4.	4.	72.0	140631.	90465.	0.9944
818 7	4335458.	815039.	5150497.	4.	4.	75.2	141426.	90465.	1.0000
818 8	5256840.	996690.	6253530.	4.	4.	78.1	141426.	90465.	1.0000
818 9	5808053.	1127677.	6935730.	4.	4.	79.0	141426.	90465.	1.0000
81810	6218376.	1223490.	7441865.	4.	4.	80.4	141426.	90465.	1.0000
81811	6601525.	1324143.	7925668.	4.	4.	81.8	141426.	90465.	1.0000
81812	6680344.	1356615.	8036959.	4.	4.	81.1	141426.	90465.	1.0000
81813	7079866.	1446835.	8526701.	4.	4.	81.7	141426.	90465.	1.0000
81814	7281769.	1502584.	8784353.	4.	4.	83.6	141426.	90465.	1.0000
81815	6946938.	1441591.	8388528.	4.	4.	85.5	141426.	90465.	1.0000
81816	5940299.	1224131.	7164430.	4.	4.	84.1	141426.	90465.	1.0000
81817	5673811.	1151062.	6824874.	4.	4.	83.7	141426.	90465.	1.0000
81818	5161632.	1040863.	6202494.	4.	4.	83.0	141426.	90465.	1.0000
81819	4581775.	923552.	5505327.	4.	4.	82.3	141426.	90465.	1.0000
81820	4249036.	858486.	5107522.	4.	4.	81.0	141426.	90465.	1.0000
81821	4032552.	813154.	4845706.	4.	4.	81.0	141164.	90465.	0.9981
81822	3817701.	777868.	4595569.	4.	4.	81.0	140182.	90465.	0.9912
81823	3615632.	745860.	4361492.	4.	4.	81.0	139195.	90465.	0.9842
81824	3410250.	714421.	4124671.	4.	4.	81.0	138126.	90465.	0.9767
DAILY SUMMARY (AUG 18)									
MN	1877811.	482605.	2360416.	4.	4.	71.0	136255.	90465.	0.9634
MX	7281769.	1502584.	8784353.	4.	4.	85.5	141426.	90465.	1.0000
SM	110514592.	22683538.	133198136.	96.	96.	1899.6	3364144.	2171169.	23.7872
AV	4604775.	945147.	5549923.	4.	4.	79.1	140173.	90465.	0.9911

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
----	----	----	----	----	----	----	----	----
819 1	3153977.	676731.	3830708.	4.	4.	80.0	137306.	90465.
819 2	3031609.	654113.	3685723.	4.	4.	80.0	136567.	90465.
819 3	2824754.	625788.	3450542.	4.	4.	79.0	135979.	90465.
819 4	2751367.	611254.	3362621.	4.	4.	79.0	135493.	90465.
819 5	2710398.	605888.	3316286.	4.	4.	79.0	135231.	90465.
819 6	3472536.	712725.	4185261.	4.	4.	79.0	139575.	90465.
819 7	4895288.	952448.	5847736.	4.	4.	80.1	141426.	90465.
819 8	5613660.	1102562.	6716222.	4.	4.	80.3	141426.	90465.
819 9	6122802.	1213702.	7336503.	4.	4.	81.0	141426.	90465.
81910	6208665.	1239796.	7448460.	4.	4.	80.4	141426.	90465.
81911	6379204.	1272526.	7651730.	4.	4.	81.4	141426.	90465.
81912	6527596.	1316968.	7844564.	4.	4.	81.7	141426.	90465.
81913	6886882.	1405727.	8292609.	4.	4.	83.8	141426.	90465.
81914	6712683.	1386316.	8098998.	4.	4.	82.8	141426.	90465.
81915	6310945.	1279852.	7590797.	4.	4.	81.4	141426.	90465.
81916	5313110.	1051291.	6364402.	4.	4.	79.9	141426.	90465.
81917	4922273.	963622.	5885894.	4.	4.	80.1	141426.	90465.
81918	4453642.	879778.	5333420.	4.	4.	77.9	141426.	90465.
81919	3853985.	765521.	4619506.	4.	4.	77.1	141426.	90465.
81920	3572672.	718228.	4290899.	4.	4.	75.2	141426.	90465.
81921	3253499.	662527.	3916027.	4.	4.	73.2	141426.	90465.
81922	2999245.	619772.	3619017.	4.	4.	72.1	141426.	90465.
81923	2720708.	580004.	3300711.	4.	4.	71.0	141146.	90465.
81924	2453723.	544165.	2997888.	4.	4.	69.0	141355.	90465.
DAILY SUMMARY (AUG 19)								
MN	2453723.	544165.	2997888.	4.	4.	69.0	135231.	90465.
MX	6886882.	1405727.	8292609.	4.	4.	83.8	141426.	90465.
SM	107145208.	21841304.	128986520.	96.	96.	1884.3	3365477.	2171169.
AV	4464384.	910054.	5374439.	4.	4.	78.5	140228.	90465.
MONTHLY SUMMARY (AUG)								
MN	1877811.	482605.	2360416.	4.	4.	69.0	135231.	90465.
MX	7281769.	1502584.	8784353.	4.	4.	85.5	141426.	90465.
SM	217659808.	44524840.	262184656.	192.	192.	3783.8	6729621.	4342338.
AV	4534580.	927601.	5462181.	4.	4.	78.8	140200.	90465.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
10 9 1	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 2	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 3	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 4	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 5	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 6	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 7	310268.	146328.	456596.	4.	4.	65.0	106960.	90465.	0.7563
10 9 8	350550.	165372.	515923.	4.	4.	65.0	107849.	90465.	0.7626
10 9 9	361058.	170342.	531399.	4.	4.	65.0	108078.	90465.	0.7642
10 9 10	375266.	177062.	552328.	4.	4.	65.0	108385.	90465.	0.7664
10 9 11	335382.	158200.	493581.	4.	4.	65.0	107516.	90465.	0.7602
10 9 12	322481.	152101.	474582.	4.	4.	65.0	107231.	90465.	0.7582
10 9 13	343681.	162124.	505805.	4.	4.	65.0	107698.	90465.	0.7615
10 9 14	379552.	179090.	558643.	4.	4.	65.0	108478.	90465.	0.7670
10 9 15	347345.	163856.	511201.	4.	4.	65.0	107779.	90465.	0.7621
10 9 16	387722.	182955.	570677.	4.	4.	65.0	108653.	90465.	0.7683
10 9 17	339555.	160173.	499728.	4.	4.	65.0	107608.	90465.	0.7609
10 9 18	341501.	161093.	502594.	4.	4.	65.0	107651.	90465.	0.7612
10 9 19	311592.	146954.	458545.	4.	4.	65.0	106989.	90465.	0.7565
10 9 20	321309.	151547.	472857.	4.	4.	65.0	107205.	90465.	0.7580
10 9 21	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 22	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 23	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
10 9 24	309472.	145952.	455424.	4.	4.	65.0	106942.	90465.	0.7562
DAILY SUMMARY (OCT 9)									
MN	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
MX	387722.	182955.	570677.	4.	4.	65.0	108653.	90465.	0.7683
SM	7861235.	3708009.	11569244.	96.	96.	1560.0	2576145.	2171169.	18.2154
AV	327551.	154500.	482052.	4.	4.	65.0	107339.	90465.	0.7590

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELRC BTU/HR	COOLING- TWR PUMP ELRC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----	----	----	----	----	----	----	----	----
	(1)	(3)	(1)	(6)	(9)	(19)	(20)	(21)	(23)
1010 1	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 2	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 3	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 4	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 5	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 6	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 7	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
1010 8	353627.	166827.	520455.	4.	4.	65.0	107916.	90465.	0.7631
1010 9	410347.	193662.	604009.	4.	4.	65.0	109135.	90465.	0.7717
101010	317377.	149688.	467065.	4.	4.	65.0	107118.	90465.	0.7574
101011	396127.	186932.	583059.	4.	4.	65.0	108833.	90465.	0.7695
101012	353404.	166722.	520126.	4.	4.	65.0	107911.	90465.	0.7630
101013	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101014	310630.	146499.	457129.	4.	4.	65.0	106968.	90465.	0.7564
101015	333411.	157268.	490679.	4.	4.	65.0	107473.	90465.	0.7599
101016	316320.	149189.	465509.	4.	4.	65.0	107095.	90465.	0.7572
101017	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101018	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101019	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101020	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101021	303316.	143043.	446359.	4.	4.	65.0	106805.	90465.	0.7552
101022	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101023	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
101024	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
DAILY SUMMARY (OCT 10)									
MN	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
MX	410347.	193662.	604009.	4.	4.	65.0	109135.	90465.	0.7717
SM	7635397.	3601262.	11236656.	96.	96.	1560.0	2571125.	2171169.	18.1799
AV	318142.	150053.	468194.	4.	4.	65.0	107130.	90465.	0.7575
MONTHLY SUMMARY (OCT)									
MN	302722.	142762.	445485.	4.	4.	65.0	106791.	90465.	0.7551
MX	410347.	193662.	604009.	4.	4.	65.0	109135.	90465.	0.7717
SM	15496632.	7309271.	22805900.	192.	192.	3120.0	5147270.	4342338.	36.3954
AV	322847.	152276.	475123.	4.	4.	65.0	107235.	90465.	0.7582
YEARLY SUMMARY									
MN	302722.	142762.	445485.	4.	4.	64.7	106791.	90465.	0.7551
MX	7281769.	1507925.	8784353.	4.	4.	85.5	141426.	90465.	1.0000
SM	561717696.	121525072.	683242688.	768.	768.	13882.7	24750108.	17369352.	175.0034
AV	2925613.	632943.	3558556.	4.	4.	72.3	128907.	90465.	0.9115

ECO-3

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 2:10:24 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- BBPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	229.01	5128.55
SPACE COOL	2659.66	0.00
HVAC AUX	5352.53	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.61	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.42	0.00
	-----	-----
TOTAL	23021.24	5128.55

100.00
 2-SPSS
 RESIDE

TOTAL SITE ENERGY 28149.62 MBTU 85.4 KBTU/SQFT-YR GROSS-AREA 85.4 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 74261.00 MBTU 225.4 KBTU/SQFT-YR GROSS-AREA 225.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 3.7
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
525 1	618332.	292245.	910577.	4.	4.	65.0	16184.	90465.	0.9155
525 2	411510.	194213.	605723.	4.	4.	65.0	15590.	90465.	0.8818
525 3	437646.	206585.	644231.	4.	4.	65.0	15668.	90465.	0.8863
525 4	459344.	216860.	676205.	4.	4.	65.0	15732.	90465.	0.8899
525 5	431755.	203796.	635551.	4.	4.	65.0	15650.	90465.	0.8853
525 6	631318.	298410.	929728.	4.	4.	65.0	16219.	90465.	0.9175
525 7	1706845.	450241.	2157086.	4.	4.	65.0	16892.	90465.	0.1553
525 8	2762013.	567236.	3329249.	4.	4.	65.0	95720.	90465.	0.6306
525 9	3854814.	716778.	4571592.	4.	4.	65.0	138699.	90465.	0.9780
52510	4301003.	786343.	5087345.	4.	4.	65.1	141426.	90465.	1.0000
52511	4666796.	847285.	5514080.	4.	4.	65.8	141426.	90465.	1.0000
52512	4869973.	884564.	5754538.	4.	4.	66.3	141426.	90465.	1.0000
52513	5409071.	984728.	6393799.	4.	4.	68.6	141426.	90465.	1.0000
52514	4793663.	879746.	5673409.	4.	4.	67.3	141426.	90465.	1.0000
52515	4132488.	765379.	4897868.	4.	4.	64.7	141426.	90465.	1.0000
52516	3212557.	624823.	3837380.	4.	4.	65.0	129284.	90465.	0.9019
52517	2672214.	556242.	3228457.	4.	4.	65.0	123537.	90465.	0.8554
52518	2226339.	504528.	2730867.	4.	4.	65.0	122077.	90465.	0.8436
52519	1382371.	419556.	1801927.	4.	4.	65.0	81590.	90465.	0.5165
52520	1186833.	402250.	1589082.	4.	4.	65.0	70469.	90465.	0.4266
52521	1013197.	387625.	1400821.	4.	4.	65.0	35360.	90465.	0.1429
52522	848518.	374397.	1222915.	4.	4.	65.0	23634.	90465.	0.0481
52523	762992.	360986.	1123978.	4.	4.	65.0	17661.	90465.	0.9990
52524	654281.	309315.	963596.	4.	4.	65.0	16281.	90465.	0.9210
DAILY SUMMARY (MAY 25)									
MN	411510.	194213.	605723.	4.	4.	64.7	15590.	90465.	0.0481
MX	5409071.	984728.	6393799.	4.	4.	68.6	141426.	90465.	1.0000
SM	53445864.	12234129.	65680004.	96.	96.	1567.8	1834806.	2171169.	18.7951
AV	2226911.	509755.	2736667.	4.	4.	65.3	76450.	90465.	0.7831

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN BTU/HR	COOLING- TWR PUMP BTU/HR	COOLING- TWR PRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
526 1	624341.	295098.	919438.	4.	4.	65.0	16200.	90465.	0.9164
526 2	578325.	273260.	851585.	4.	4.	65.0	16074.	90465.	0.9092
526 3	470532.	222160.	692692.	4.	4.	65.0	15765.	90465.	0.8918
526 4	427352.	201711.	629063.	4.	4.	65.0	15637.	90465.	0.8845
526 5	436795.	206182.	642977.	4.	4.	65.0	15666.	90465.	0.8861
526 6	838944.	373647.	1212591.	4.	4.	65.0	22932.	90465.	0.0425
526 7	3627962.	683317.	4311280.	4.	4.	68.7	141426.	90465.	1.0000
526 8	4515940.	832542.	5348482.	4.	4.	72.3	141426.	90465.	1.0000
526 9	4959050.	925133.	5884183.	4.	4.	74.5	141426.	90465.	1.0000
52610	5139727.	970342.	6110069.	4.	4.	75.6	141426.	90465.	1.0000
52611	5441774.	1035158.	6476932.	4.	4.	76.8	141426.	90465.	1.0000
52612	5838525.	1124508.	6963033.	4.	4.	78.2	141426.	90465.	1.0000
52613	6225351.	1218847.	7444198.	4.	4.	79.6	141426.	90465.	1.0000
52614	6348487.	1258375.	7606862.	4.	4.	79.8	141426.	90465.	1.0000
52615	6132609.	1211687.	7344296.	4.	4.	80.3	141426.	90465.	1.0000
52616	5372993.	1054609.	6427603.	4.	4.	79.1	141426.	90465.	1.0000
52617	4961285.	965807.	5927092.	4.	4.	77.7	141426.	90465.	1.0000
52618	4347851.	846228.	5194078.	4.	4.	76.9	141426.	90465.	1.0000
52619	3761942.	745937.	4507880.	4.	4.	76.2	141426.	90465.	1.0000
52620	3355095.	681606.	4036701.	4.	4.	76.0	137092.	90465.	0.9650
52621	3099357.	644638.	3743995.	4.	4.	75.0	132873.	90465.	0.9309
52622	3000988.	627077.	3628066.	4.	4.	75.0	129175.	90465.	0.9010
52623	2668355.	583710.	3252065.	4.	4.	74.0	121628.	90465.	0.8400
52624	2508545.	560278.	3068822.	4.	4.	74.0	114977.	90465.	0.7863
DAILY SUMMARY (MAY 26)									
MN	427352.	201711.	629063.	4.	4.	65.0	15637.	90465.	0.0425
MX	6348487.	1258375.	7606862.	4.	4.	80.3	141426.	90465.	1.0000
SM	84682128.	17541858.	102223976.	96.	96.	1759.9	2576562.	2171169.	21.9537
AV	3528422.	730911.	4259333.	4.	4.	73.3	107357.	90465.	0.9147
MONTHLY SUMMARY (MAY)									
MN	411510.	194213.	605723.	4.	4.	64.7	15590.	90465.	0.0425
MX	6348487.	1258375.	7606862.	4.	4.	80.3	141426.	90465.	1.0000
SM	138128000.	29775988.	167903984.	192.	192.	3327.7	4411369.	4342338.	40.7488
AV	2877667.	620333.	3498000.	4.	4.	69.3	91904.	90465.	0.8489

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
----	----	----	----	----	----	----	----	----
613 1	1978521.	499272.	2477793.	4.	4.	74.0	90758.	0.5905
613 2	1961302.	497405.	2458708.	4.	4.	74.0	89898.	0.5836
613 3	1876837.	488353.	2365190.	4.	4.	74.0	85612.	0.5490
613 4	1812907.	481616.	2294523.	4.	4.	74.0	82288.	0.5221
613 5	1836007.	484039.	2320046.	4.	4.	75.0	76921.	0.4787
613 6	2841241.	605906.	3447147.	4.	4.	75.0	123138.	0.8522
613 7	4415719.	842722.	5258441.	4.	4.	77.0	141426.	1.0000
613 8	5238986.	1004274.	6243259.	4.	4.	78.9	141426.	1.0000
613 9	5833208.	1139176.	6972384.	4.	4.	80.6	141426.	1.0000
61310	6349579.	1267680.	7617259.	4.	4.	82.2	141426.	1.0000
61311	6600368.	1341880.	7942248.	4.	4.	82.6	141426.	1.0000
61312	7022062.	1448864.	8470926.	4.	4.	84.0	141426.	1.0000
61313	6994234.	1458491.	8452724.	4.	4.	82.4	141426.	1.0000
61314	7271629.	1507925.	8779554.	4.	4.	83.6	141426.	1.0000
61315	6310310.	1287850.	7598160.	4.	4.	79.0	141426.	1.0000
61316	5762688.	1125281.	6887969.	4.	4.	78.1	141426.	1.0000
61317	5415416.	1047087.	6462502.	4.	4.	80.0	141426.	1.0000
61318	4953252.	970333.	5923585.	4.	4.	78.5	141426.	1.0000
61319	4347997.	851085.	5199081.	4.	4.	77.7	141426.	1.0000
61320	3921492.	775505.	4696997.	4.	4.	77.2	141426.	1.0000
61321	3655017.	731102.	4386119.	4.	4.	76.9	141426.	1.0000
61322	3392706.	690490.	4083196.	4.	4.	76.0	138458.	0.9760
61323	3221664.	661677.	3883340.	4.	4.	76.0	132449.	0.9275
61324	3054979.	638549.	3693528.	4.	4.	76.0	126400.	0.8786
DAILY SUMMARY (JUN 13)								
MN	1812907.	481616.	2294523.	4.	4.	74.0	76921.	0.4787
MX	7271629.	1507925.	8779554.	4.	4.	84.0	141426.	1.0000
SM	106068112.	21846556.	127914696.	96.	96.	1872.8	3067319.	21.3582
AV	4419505.	910273.	5329779.	4.	4.	78.0	127805.	0.8899

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
614 1	2812733.	606183.	3418916.	4.	4.	76.0	117013.	90465.	0.8027
614 2	2660563.	586604.	3247167.	4.	4.	75.0	116068.	90465.	0.7951
614 3	2611037.	576516.	3187552.	4.	4.	76.0	108472.	90465.	0.7337
614 4	2477601.	563827.	3041428.	4.	4.	76.0	102758.	90465.	0.6875
614 5	2410466.	555678.	2966144.	4.	4.	76.0	99712.	90465.	0.6629
614 6	3401448.	687409.	4088857.	4.	4.	77.0	134156.	90465.	0.9412
614 7	4922452.	944387.	5866839.	4.	4.	79.3	141426.	90465.	1.0000
614 8	5780206.	1130959.	6911166.	4.	4.	81.3	141426.	90465.	1.0000
614 9	5858298.	1165021.	7023318.	4.	4.	79.9	141426.	90465.	1.0000
61410	6107864.	1206654.	7314518.	4.	4.	80.2	141426.	90465.	1.0000
61411	6083711.	1204473.	7288184.	4.	4.	79.4	141426.	90465.	1.0000
61412	6466565.	1283649.	7750214.	4.	4.	80.8	141426.	90465.	1.0000
61413	6792395.	1373430.	8165825.	4.	4.	82.8	141426.	90465.	1.0000
61414	6678760.	1367614.	8046374.	4.	4.	81.9	141426.	90465.	1.0000
61415	5432629.	1080210.	6512839.	4.	4.	78.4	141426.	90465.	1.0000
61416	4474579.	872512.	5347091.	4.	4.	73.9	141426.	90465.	1.0000
61417	3608903.	708528.	4317432.	4.	4.	69.5	141426.	90465.	1.0000
61418	1875511.	476006.	2351517.	4.	4.	65.0	106984.	90465.	0.7217
61419	1116705.	396259.	1512964.	4.	4.	65.0	18110.	90465.	0.0035
61420	874478.	376441.	1250918.	4.	4.	65.0	25526.	90465.	0.0634
61421	734309.	347344.	1081653.	4.	4.	65.0	17600.	90465.	0.9955
61422	476221.	224855.	701076.	4.	4.	65.0	17011.	90465.	0.9622
61423	311525.	146922.	458447.	4.	4.	65.0	15279.	90465.	0.8643
61424	396137.	186937.	583074.	4.	4.	65.0	15543.	90465.	0.8792
DAILY SUMMARY (JUN 14)									
MN	311525.	146922.	458447.	4.	4.	65.0	15279.	90465.	0.0035
MX	6792395.	1373430.	8165825.	4.	4.	82.8	141426.	90465.	1.0000
SM	84365104.	18068416.	102433504.	96.	96.	1778.5	2449923.	2171169.	20.1131
AV	3515213.	752851.	4268063.	4.	4.	74.1	102080.	90465.	0.8380
MONTHLY SUMMARY (JUN)									
MN	311525.	146922.	458447.	4.	4.	65.0	15279.	90465.	0.0035
MX	7271629.	1507925.	8779554.	4.	4.	84.0	141426.	90465.	1.0000
SM	190433216.	39914972.	230348192.	192.	192.	3651.2	5517242.	4342338.	41.4713
AV	3967359.	831562.	4798921.	4.	4.	76.1	114943.	90465.	0.8640

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN BTU/HR	COOLING- TWR PUMP BTU/HR	COOLING- TWR FRAC HR FANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
818 1	2536384.	563673.	3100056.	4.	4.	74.0	116137.	90465.	0.7956
818 2	2334174.	539448.	2873622.	4.	4.	73.0	113332.	90465.	0.7730
818 3	2237630.	525018.	2762648.	4.	4.	73.0	108996.	90465.	0.7379
818 4	2064430.	505578.	2570008.	4.	4.	72.0	107394.	90465.	0.7250
818 5	1877811.	482605.	2360416.	4.	4.	71.0	105148.	90465.	0.7068
818 6	2772317.	583158.	3355475.	4.	4.	72.0	135843.	90465.	0.9549
818 7	4335458.	815039.	5150497.	4.	4.	75.2	141426.	90465.	1.0000
818 8	5256840.	996690.	6253530.	4.	4.	78.1	141426.	90465.	1.0000
818 9	5808053.	1127677.	6935730.	4.	4.	79.0	141426.	90465.	1.0000
81810	6218376.	1223490.	7441865.	4.	4.	80.4	141426.	90465.	1.0000
81811	6601525.	1324143.	7925668.	4.	4.	81.8	141426.	90465.	1.0000
81812	6680344.	1356615.	8036959.	4.	4.	81.1	141426.	90465.	1.0000
81813	7079866.	1446835.	8526701.	4.	4.	81.7	141426.	90465.	1.0000
81814	7281769.	1502584.	8784353.	4.	4.	83.6	141426.	90465.	1.0000
81815	6946938.	1441591.	8388528.	4.	4.	85.5	141426.	90465.	1.0000
81816	5940299.	1224131.	7164430.	4.	4.	84.1	141426.	90465.	1.0000
81817	5673811.	1151062.	6824874.	4.	4.	83.7	141426.	90465.	1.0000
81818	5161632.	1040863.	6202494.	4.	4.	83.0	141426.	90465.	1.0000
81819	4581775.	923552.	5505327.	4.	4.	82.3	141426.	90465.	1.0000
81820	4249036.	858486.	5107522.	4.	4.	81.0	141426.	90465.	1.0000
81821	4032552.	813154.	4845706.	4.	4.	81.0	139584.	90465.	0.9851
81822	3817701.	777868.	4595569.	4.	4.	81.0	132694.	90465.	0.9294
81823	3615632.	745860.	4361492.	4.	4.	81.0	125774.	90465.	0.8735
81824	3410250.	714421.	4124671.	4.	4.	81.0	118273.	90465.	0.8129
DAILY SUMMARY (AUG 18)									
MN	1877811.	482605.	2360416.	4.	4.	71.0	105148.	90465.	0.7068
MX	7281769.	1502584.	8784353.	4.	4.	85.5	141426.	90465.	1.0000
SM	110514592.	22683538.	133198136.	96.	96.	1899.6	3183145.	2171169.	22.2942
AV	4604775.	945147.	5549923.	4.	4.	79.1	132631.	90465.	0.9289

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR PRAC HR FANS RUN FRAC. OR MULT.
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819 1	3153977.	676731.	3830708.	4.	4.	80.0	112520.	90465.
819 2	3031609.	654113.	3685723.	4.	4.	80.0	107338.	90465.
819 3	2824754.	625788.	3450542.	4.	4.	79.0	103213.	90465.
819 4	2751367.	611254.	3362621.	4.	4.	79.0	99803.	90465.
819 5	2710398.	605888.	3316286.	4.	4.	79.0	97969.	90465.
819 6	3472536.	712725.	4185261.	4.	4.	79.0	128439.	90465.
819 7	4895288.	952448.	5847736.	4.	4.	80.1	141426.	90465.
819 8	5613660.	1102562.	6716222.	4.	4.	80.3	141426.	90465.
819 9	6122802.	1213702.	7336503.	4.	4.	81.0	141426.	90465.
81910	6208665.	1239796.	7448460.	4.	4.	80.4	141426.	90465.
81911	6379204.	1272526.	7651730.	4.	4.	81.4	141426.	90465.
81912	6527596.	1316968.	7844564.	4.	4.	81.7	141426.	90465.
81913	6886882.	1405727.	8292609.	4.	4.	83.8	141426.	90465.
81914	6712683.	1386316.	8098998.	4.	4.	82.8	141426.	90465.
81915	6310945.	1279852.	7590797.	4.	4.	81.4	141426.	90465.
81916	5313110.	1051291.	6364402.	4.	4.	79.9	141426.	90465.
81917	4922273.	963622.	5885894.	4.	4.	80.1	141426.	90465.
81918	4453642.	879778.	5333420.	4.	4.	77.9	141426.	90465.
81919	3853985.	765521.	4619506.	4.	4.	77.1	141426.	90465.
81920	3572672.	718228.	4290899.	4.	4.	75.2	141426.	90465.
81921	3253499.	662527.	3916027.	4.	4.	73.2	141426.	90465.
81922	2999245.	619772.	3619017.	4.	4.	72.1	141426.	90465.
81923	2720708.	580004.	3300711.	4.	4.	71.0	139462.	90465.
81924	2453723.	544165.	2997888.	4.	4.	69.0	140928.	90465.
DAILY SUMMARY (AUG 19)								
MN	2453723.	544165.	2997888.	4.	4.	69.0	97969.	90465.
MX	6886882.	1405727.	8292609.	4.	4.	83.8	141426.	90465.
SM	107145208.	21841304.	128986520.	96.	96.	1884.3	3192497.	2171169.
AV	4464384.	910054.	5374439.	4.	4.	78.5	133021.	90465.
MONTHLY SUMMARY (AUG)								
MN	1877811.	482605.	2360416.	4.	4.	69.0	97969.	90465.
MX	7281769.	1502584.	8784353.	4.	4.	85.5	141426.	90465.
SM	217659808.	44524840.	262184656.	192.	192.	3783.8	6375641.	4342338.
AV	4534580.	927601.	5462181.	4.	4.	78.8	132826.	90465.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR PANS RUN FRAC. OR MULT.
	----(1)	----(3)	----(1)	----(6)	----(9)	----(19)	----(20)	----(21)	----(23)
10 9 1	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 2	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 3	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 4	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 5	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 6	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 9 7	310268.	146328.	456596.	4.	4.	65.0	15275.	90465.	0.8641
10 9 8	350550.	165372.	515923.	4.	4.	65.0	15402.	90465.	0.8713
10 9 9	361058.	170342.	531399.	4.	4.	65.0	15435.	90465.	0.8731
10 910	375266.	177062.	552328.	4.	4.	65.0	15479.	90465.	0.8756
10 911	335382.	158200.	493581.	4.	4.	65.0	15355.	90465.	0.8686
10 912	322481.	152101.	474582.	4.	4.	65.0	15314.	90465.	0.8663
10 913	343681.	162124.	505805.	4.	4.	65.0	15381.	90465.	0.8700
10 914	379552.	179090.	558643.	4.	4.	65.0	15492.	90465.	0.8763
10 915	347345.	163856.	511201.	4.	4.	65.0	15392.	90465.	0.8707
10 916	387722.	182955.	570677.	4.	4.	65.0	15517.	90465.	0.8778
10 917	339555.	160173.	499728.	4.	4.	65.0	15368.	90465.	0.8693
10 918	341501.	161093.	502594.	4.	4.	65.0	15374.	90465.	0.8697
10 919	311592.	146954.	458545.	4.	4.	65.0	15280.	90465.	0.8643
10 920	321309.	151547.	472857.	4.	4.	65.0	15310.	90465.	0.8661
10 921	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 922	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 923	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
10 924	309472.	145952.	455424.	4.	4.	65.0	15273.	90465.	0.8639
DAILY SUMMARY (OCT 9)									
MN	302722.	142762.	445485.	4.	4.	65.0	15251.	90465.	0.8627
MX	387722.	182955.	570677.	4.	4.	65.0	15517.	90465.	0.8778
SM	7861235.	3708009.	11569244.	96.	96.	1560.0	367909.	2171169.	20.8113
AV	327551.	154500.	482052.	4.	4.	65.0	15330.	90465.	0.8671

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR LOAD BTU/HR	COOLING- TWR SIZES RUNNING	COOLING- TWR MINIMUM CELL NO.	COOLING- TWR TEMP F	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	COOLING- TWR FRAC HR MULT.
----	----	----	----	----	----	----	----	----
1010 1	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 2	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 3	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 4	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 5	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 6	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 7	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
1010 8	353627.	166827.	520455.	4.	4.	65.0	15412.	0.8718
1010 9	410347.	193662.	604009.	4.	4.	65.0	15586.	0.8816
101010	317377.	149688.	467065.	4.	4.	65.0	15298.	0.8654
101011	396127.	186932.	583059.	4.	4.	65.0	15543.	0.8792
101012	353404.	166722.	520126.	4.	4.	65.0	15411.	0.8718
101013	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101014	310630.	146499.	457129.	4.	4.	65.0	15277.	0.8641
101015	333411.	157268.	490679.	4.	4.	65.0	15349.	0.8682
101016	316320.	149189.	465509.	4.	4.	65.0	15295.	0.8652
101017	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101018	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101019	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101020	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101021	303316.	143043.	446359.	4.	4.	65.0	15253.	0.8628
101022	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101023	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
101024	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
DAILY SUMMARY (OCT 10)								
MN	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
MX	410347.	193662.	604009.	4.	4.	65.0	15586.	0.8816
SM	7635397.	3601262.	11236656.	96.	96.	1560.0	367192.	20.7708
AV	318142.	150053.	468194.	4.	4.	65.0	15300.	0.8654
MONTHLY SUMMARY (OCT)								
MN	302722.	142762.	445485.	4.	4.	65.0	15251.	0.8627
MX	410347.	193662.	604009.	4.	4.	65.0	15586.	0.8816
SM	15496632.	7309271.	22805900.	192.	192.	3120.0	735101.	41.5821
AV	322847.	152276.	475123.	4.	4.	65.0	15315.	0.8663
YEARLY SUMMARY								
MN	302722.	142762.	445485.	4.	4.	64.7	15251.	0.0035
MX	7281769.	1507925.	8784353.	4.	4.	85.5	141426.	1.0000
SM	561717696.	121525072.	683242688.	768.	768.	13882.7	17039352.	168.4661
AV	2925613.	632943.	3558556.	4.	4.	72.3	88747.	0.8774

ECO-9

ENTECH ENGINEERING
 READING, PA 19603
 RS_1 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
 FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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MMDDHH	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERFC SUPPLY ELECTRIC KW	3SPERFC SUPPLY ELECTRIC KW	4SPERFC SUPPLY ELECTRIC KW
----	(49)	(49)	(49)	(49)
MONTHLY SUMMARY (JAN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14792.671	749.415	749.415	878.909
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (FEB)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	13349.483	676.301	676.301	793.162
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14071.077	712.858	712.858	836.035
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (APR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14071.077	712.858	712.858	836.035
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAY)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14792.671	749.415	749.415	878.909
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	13710.280	694.579	694.579	814.599
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUL)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	15153.468	767.693	767.693	900.346
AV	30.066	1.523	1.523	1.786

MCA SYSTEM BEST
OFF-PEAK

ENTECH ENGINEERING
READING, PA 19603
RS_1 - HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERFC SUPPLY ELECTRIC KW	3SPERFC SUPPLY ELECTRIC KW	4SPERFC SUPPLY ELECTRIC KW
----	(49)	(49)	(49)	(49)
MONTHLY SUMMARY (AUG)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14071.077	712.858	712.858	836.035
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (SEP)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14071.077	712.858	712.858	836.035
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (OCT)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	15153.468	767.693	767.693	900.346
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (NOV)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14431.874	731.136	731.136	857.472
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (DEC)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	14792.671	749.415	749.415	878.909
AV	30.066	1.523	1.523	1.786
YEARLY SUMMARY				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	172460.891	8737.077	8737.077	10246.794
AV	30.066	1.523	1.523	1.786

MMDDHH	SSZF2MID	SSZF3MID	SSZF4MID	OSMCAHUS
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	ZR SUPPLY ELECTRIC KW
	----(49)	----(49)	----(49)	----(49)
MONTHLY SUMMARY (JAN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11764.703	14392.478	14498.549	8640.309
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (FEB)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	10616.927	12988.333	13084.057	7797.351
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11190.815	13690.405	13791.303	8218.829
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (APR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11190.814	13690.405	13791.305	8218.830
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAY)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11764.703	14392.479	14498.549	8640.308
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	10903.871	13339.369	13437.680	8008.090
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUL)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	12051.646	14743.514	14852.172	8851.047
AV	23.912	29.253	29.469	17.562

ENTECH ENGINEERING
READING, PA 19603
RS_2 - HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
FITMOACO - SIM MCA H2O ONLY W/OA SCHD1

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	SSZF2MID	SSZF3MID	SSZF4MID	OSMCAHUS ZR
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW
	----(49)	----(49)	----(49)	----(49)
MONTHLY SUMMARY (AUG)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11190.815	13690.406	13791.303	8218.829
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (SEP)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11190.815	13690.405	13791.303	8218.829
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (OCT)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	12051.646	14743.514	14852.174	8851.047
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (NOV)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11477.759	14041.441	14144.926	8429.568
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (DEC)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	11764.702	14392.478	14498.549	8640.308
AV	23.912	29.253	29.469	17.562
YEARLY SUMMARY				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	137159.203	167795.214	169031.859	100733.344
AV	23.912	29.253	29.469	17.562

MMDDHH 1EXTPER 1EXTPER 1INTPER 1INTPER

THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
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----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	73.0	71.5	72.6
MX	75.5	74.7	75.5	75.0
SM	35510.0	36101.0	35574.0	36066.1
AV	72.2	73.4	72.3	73.3

MONTHLY SUMMARY (FEB)

MN	71.5	72.9	71.5	72.2
MX	75.5	74.4	75.5	74.8
SM	32182.0	32597.3	32318.0	32519.3
AV	72.5	73.4	72.8	73.2

MONTHLY SUMMARY (MAR)

MN	71.5	73.2	71.5	72.7
MX	75.5	76.0	75.5	76.4
SM	34330.0	34462.2	34462.0	34458.2
AV	73.4	73.6	73.6	73.6

MONTHLY SUMMARY (APR)

MN	71.5	73.3	71.5	72.9
MX	75.5	80.6	75.5	80.6
SM	35110.0	34876.8	35018.0	34910.4
AV	75.0	74.5	74.8	74.6

MONTHLY SUMMARY (MAY)

MN	71.5	73.2	71.5	73.5
MX	75.5	94.5	75.5	94.4
SM	37126.0	37292.4	37142.0	37430.1
AV	75.5	75.8	75.5	76.1

MONTHLY SUMMARY (JUN)

MN	75.5	74.1	75.5	74.3
MX	75.5	75.9	75.5	76.8
SM	34428.0	34157.5	34428.0	34331.0
AV	75.5	74.9	75.5	75.3

MONTHLY SUMMARY (JUL)

MN	75.5	74.2	75.5	74.4
MX	75.5	75.9	75.5	76.7
SM	38052.0	37801.7	38052.0	37965.0
AV	75.5	75.0	75.5	75.3

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THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
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MONTHLY SUMMARY (AUG)

MN	75.5	73.9	75.5	74.1
MX	75.5	76.0	75.5	76.4
SM	35334.0	35068.0	35334.0	35191.7
AV	75.5	74.9	75.5	75.2

MONTHLY SUMMARY (SEP)

MN	75.5	73.7	75.5	73.5
MX	75.5	75.6	75.5	76.3
SM	35334.0	34967.9	35334.0	35012.0
AV	75.5	74.7	75.5	74.8

MONTHLY SUMMARY (OCT)

MN	71.5	72.2	71.5	71.9
MX	75.5	78.5	75.5	77.4
SM	37988.0	37540.6	37848.0	37485.4
AV	75.4	74.5	75.1	74.4

MONTHLY SUMMARY (NOV)

MN	71.5	73.2	71.5	73.1
MX	75.5	81.5	75.5	81.9
SM	35488.0	35502.4	35356.0	35494.0
AV	73.9	74.0	73.7	73.9

MONTHLY SUMMARY (DEC)

MN	71.5	73.1	71.5	72.7
MX	75.5	75.0	75.5	75.0
SM	35782.0	36155.9	36082.0	36148.0
AV	72.7	73.5	73.3	73.5

YEARLY SUMMARY

MN	71.5	72.2	71.5	71.9
MX	75.5	94.5	75.5	94.4
SM	426664.0	426523.8	426948.0	427011.3
AV	74.4	74.4	74.4	74.4

ENTECH ENGINEERING
READING, PA 19603
RS_4 - HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ
DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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MMDDHH 2EXTPER 2EXTPER 2INTPER 2INTPER

THERMOST ZONE THERMOST ZONE
SETPOINT TEMP SETPOINT TEMP
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----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	71.9	71.5	71.9
MX	75.5	75.7	75.5	75.9
SM	35246.0	35940.1	35274.0	35960.8
AV	71.6	73.0	71.7	73.1

MONTHLY SUMMARY (FEB)

MN	71.5	72.0	71.5	72.0
MX	75.5	75.4	75.5	76.3
SM	31858.0	32447.7	31938.0	32486.7
AV	71.8	73.1	71.9	73.2

MONTHLY SUMMARY (MAR)

MN	71.5	72.6	71.5	72.6
MX	75.5	80.1	75.5	81.0
SM	33826.0	34445.8	33898.0	34527.9
AV	72.3	73.6	72.4	73.8

MONTHLY SUMMARY (APR)

MN	71.5	72.9	71.5	72.9
MX	75.5	97.0	75.5	98.5
SM	34778.0	37635.9	34810.0	37986.0
AV	74.3	80.4	74.4	81.2

MONTHLY SUMMARY (MAY)

MN	71.5	67.7	71.5	67.8
MX	75.5	102.3	75.5	103.7
SM	36750.0	39135.3	36766.0	39408.5
AV	74.7	79.5	74.7	80.1

MONTHLY SUMMARY (JUN)

MN	71.5	73.4	71.5	73.4
MX	75.5	75.6	75.5	75.8
SM	34420.0	33889.8	34420.0	33909.2
AV	75.5	74.3	75.5	74.4

MONTHLY SUMMARY (JUL)

MN	75.5	73.6	75.5	73.6
MX	75.5	75.5	75.5	75.6
SM	38052.0	37521.9	38052.0	37540.6
AV	75.5	74.4	75.5	74.5

ENTECH ENGINEERING
READING, PA 19603
RS_4 - HOURLY-REPORT

EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOAC0 - SIM MCA H2O ONLY W/OA SCHED1

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2EXTPER 2EXTPER 2INTPER 2INTPER

THERMOST ZONE THERMOST ZONE
SETPOINT TEMP SETPOINT TEMP
F F F F

---- (7) ---- (6) ---- (7) ---- (6)

MONTHLY SUMMARY (AUG)

MN	71.5	72.5	71.5	72.5
MX	75.5	75.5	75.5	75.6
SM	35282.0	34749.0	35282.0	34777.0
AV	75.4	74.2	75.4	74.3

MONTHLY SUMMARY (SEP)

MN	71.5	71.4	71.5	71.8
MX	75.5	74.9	75.5	75.0
SM	35194.0	34609.1	35222.0	34646.9
AV	75.2	74.0	75.3	74.0

MONTHLY SUMMARY (OCT)

MN	71.5	67.4	71.5	68.4
MX	75.5	89.9	75.5	92.3
SM	37412.0	38115.1	37536.0	38482.9
AV	74.2	75.6	74.5	76.4

MONTHLY SUMMARY (NOV)

MN	71.5	72.7	71.5	72.7
MX	75.5	90.0	75.5	90.7
SM	35128.0	36305.1	35228.0	36532.8
AV	73.2	75.6	73.4	76.1

MONTHLY SUMMARY (DEC)

MN	71.5	72.6	71.5	72.6
MX	75.5	79.5	75.5	80.7
SM	35366.0	36052.0	35406.0	36115.1
AV	71.9	73.3	72.0	73.4

YEARLY SUMMARY

MN	71.5	67.4	71.5	67.8
MX	75.5	102.3	75.5	103.7
SM	423312.0	430846.8	423832.0	432374.6
AV	73.8	75.1	73.9	75.4

MMDDHH 3EXTPER 3EXTPER 3INTPER 3INTPER

THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	71.9	71.5	71.9
MX	75.5	75.7	75.5	75.9
SM	35246.0	35940.1	35274.0	35960.8
AV	71.6	73.0	71.7	73.1

MONTHLY SUMMARY (FEB)

MN	71.5	72.0	71.5	72.0
MX	75.5	75.4	75.5	76.3
SM	31858.0	32447.7	31938.0	32486.7
AV	71.8	73.1	71.9	73.2

MONTHLY SUMMARY (MAR)

MN	71.5	72.6	71.5	72.6
MX	75.5	80.1	75.5	81.0
SM	33826.0	34445.8	33898.0	34527.9
AV	72.3	73.6	72.4	73.8

MONTHLY SUMMARY (APR)

MN	71.5	72.9	71.5	72.9
MX	75.5	97.0	75.5	98.5
SM	34778.0	37635.8	34810.0	37986.0
AV	74.3	80.4	74.4	81.2

MONTHLY SUMMARY (MAY)

MN	71.5	67.7	71.5	67.8
MX	75.5	102.3	75.5	103.7
SM	36750.0	39135.4	36766.0	39408.5
AV	74.7	79.5	74.7	80.1

MONTHLY SUMMARY (JUN)

MN	71.5	73.4	71.5	73.4
MX	75.5	75.6	75.5	75.8
SM	34420.0	33889.8	34420.0	33909.2
AV	75.5	74.3	75.5	74.4

MONTHLY SUMMARY (JUL)

MN	75.5	73.6	75.5	73.6
MX	75.5	75.5	75.5	75.6
SM	38052.0	37522.0	38052.0	37540.6
AV	75.5	74.4	75.5	74.5

	3EXTPER	3EXTPER	3INTPER	3INTPER
THERMOST ZONE				
SETPOINT TEMP				
F	F	F	F	F

---- (7) ---- (6) ---- (7) ---- (6)

MONTHLY SUMMARY (AUG)

MN	71.5	72.5	71.5	72.5
MX	75.5	75.5	75.5	75.6
SM	35282.0	34749.0	35282.0	34777.0
AV	75.4	74.2	75.4	74.3

MONTHLY SUMMARY (SEP)

MN	71.5	71.4	71.5	71.8
MX	75.5	74.9	75.5	75.0
SM	35194.0	34609.1	35222.0	34646.9
AV	75.2	74.0	75.3	74.0

MONTHLY SUMMARY (OCT)

MN	71.5	67.4	71.5	68.4
MX	75.5	89.9	75.5	92.3
SM	37412.0	38115.0	37536.0	38482.9
AV	74.2	75.6	74.5	76.4

MONTHLY SUMMARY (NOV)

MN	71.5	72.7	71.5	72.7
MX	75.5	90.0	75.5	90.7
SM	35128.0	36304.9	35228.0	36532.8
AV	73.2	75.6	73.4	76.1

MONTHLY SUMMARY (DEC)

MN	71.5	72.6	71.5	72.6
MX	75.5	79.5	75.5	80.7
SM	35366.0	36051.9	35406.0	36115.1
AV	71.9	73.3	72.0	73.4

YEARLY SUMMARY

MN	71.5	67.4	71.5	67.8
MX	75.5	102.3	75.5	103.7
SM	423312.0	430846.5	423832.0	432374.6
AV	73.8	75.1	73.9	75.4

MMDDHH 4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	71.8	71.5	71.8
MX	71.5	73.4	71.5	73.4
SM	35178.0	35849.9	35178.0	35855.1
AV	71.5	72.9	71.5	72.9

MONTHLY SUMMARY (FEB)

MN	71.5	71.9	71.5	71.9
MX	75.5	73.8	75.5	74.2
SM	31754.0	32359.5	31766.0	32368.8
AV	71.5	72.9	71.5	72.9

MONTHLY SUMMARY (MAR)

MN	71.5	72.5	71.5	72.5
MX	75.5	77.0	75.5	77.5
SM	33542.0	34226.3	33578.0	34248.9
AV	71.7	73.1	71.7	73.2

MONTHLY SUMMARY (APR)

MN	71.5	72.7	71.5	72.7
MX	75.5	90.5	75.5	91.5
SM	34514.0	35842.1	34566.0	36040.7
AV	73.7	76.6	73.9	77.0

MONTHLY SUMMARY (MAY)

MN	71.5	64.0	71.5	64.3
MX	75.5	98.4	75.5	99.5
SM	36486.0	37680.8	36530.0	37855.1
AV	74.2	76.6	74.2	76.9

MONTHLY SUMMARY (JUN)

MN	71.5	72.2	71.5	72.2
MX	75.5	75.6	75.5	75.7
SM	34292.0	33824.8	34312.0	33847.2
AV	75.2	74.2	75.2	74.2

MONTHLY SUMMARY (JUL)

MN	71.5	73.0	71.5	73.1
MX	75.5	75.5	75.5	75.6
SM	38036.0	37484.3	38040.0	37505.3
AV	75.5	74.4	75.5	74.4

ENTECH ENGINEERING
READING, PA 19603
RS_6 = HOURLY-REPORT

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 SDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

PAGE 2- 1

4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST ZONE THERMOST ZONE
SETPOINT TEMP SETPOINT TEMP
F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	71.5	71.1	71.5	71.3
MX	75.5	75.4	75.5	75.6
SM	35130.0	34658.8	35154.0	34689.6
AV	75.1	74.1	75.1	74.1

MONTHLY SUMMARY (SEP)

MN	71.5	69.3	71.5	69.7
MX	75.5	74.8	75.5	75.0
SM	34906.0	34459.6	34994.0	34506.8
AV	74.6	73.6	74.8	73.7

MONTHLY SUMMARY (OCT)

MN	71.5	62.4	71.5	63.5
MX	75.5	82.7	75.5	83.9
SM	36836.0	36782.7	36960.0	37049.1
AV	73.1	73.0	73.3	73.5

MONTHLY SUMMARY (NOV)

MN	71.5	72.6	71.5	72.6
MX	75.5	85.0	75.5	85.4
SM	34612.0	35485.2	34648.0	35525.7
AV	72.1	73.9	72.2	74.0

MONTHLY SUMMARY (DEC)

MN	71.5	72.5	71.5	72.5
MX	75.5	76.3	75.5	77.0
SM	35226.0	35889.2	35246.0	35903.3
AV	71.6	72.9	71.6	73.0

YEARLY SUMMARY

MN	71.5	62.4	71.5	63.5
MX	75.5	98.4	75.5	99.5
SM	420512.0	424543.3	420972.0	425395.6
AV	73.3	74.0	73.4	74.2

MMDDHH 2MIDL 2MIDL 3MIDL 3MIDL

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

---- (7) ---- (6) ---- (7) ---- (6)

MONTHLY SUMMARY (JAN)

MN	71.5	73.3	71.5	73.3
MX	75.5	75.3	75.5	75.4
SM	36454.0	36298.1	36534.0	36313.4
AV	74.1	73.8	74.3	73.8

MONTHLY SUMMARY (FEB)

MN	71.5	73.2	71.5	73.2
MX	75.5	74.9	75.5	75.0
SM	32970.0	32778.8	33002.0	32791.7
AV	74.3	73.8	74.3	73.9

MONTHLY SUMMARY (MAR)

MN	71.5	73.4	71.5	73.4
MX	75.5	76.5	75.5	76.6
SM	35190.0	34672.1	35214.0	34685.3
AV	75.2	74.1	75.2	74.1

MONTHLY SUMMARY (APR)

MN	71.5	73.5	71.5	73.5
MX	75.5	81.3	75.5	81.3
SM	35326.0	35059.6	35326.0	35068.4
AV	75.5	74.9	75.5	74.9

MONTHLY SUMMARY (MAY)

MN	75.5	73.8	75.5	73.8
MX	75.5	95.1	75.5	95.1
SM	37146.0	37408.5	37146.0	37411.0
AV	75.5	76.0	75.5	76.0

MONTHLY SUMMARY (JUN)

MN	75.5	74.2	75.5	74.3
MX	75.5	75.9	75.5	75.9
SM	34428.0	34197.1	34428.0	34197.2
AV	75.5	75.0	75.5	75.0

MONTHLY SUMMARY (JUL)

MN	75.5	74.3	75.5	74.3
MX	75.5	75.9	75.5	75.9
SM	38052.0	37830.5	38052.0	37829.3
AV	75.5	75.1	75.5	75.1

2MIDL 2MIDL 3MIDL 3MIDL

THERMOST ZONE THERMOST ZONE
 SETPOINT TEMP SETPOINT TEMP
 F F F F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	75.5	74.2	75.5	74.2
MX	75.5	76.0	75.5	76.0
SM	35334.0	35123.2	35334.0	35124.1
AV	75.5	75.0	75.5	75.1

MONTHLY SUMMARY (SEP)

MN	75.5	74.0	75.5	74.0
MX	75.5	75.8	75.5	75.8
SM	35334.0	35029.4	35334.0	35032.2
AV	75.5	74.8	75.5	74.9

MONTHLY SUMMARY (OCT)

MN	75.5	73.6	75.5	73.6
MX	75.5	77.8	75.5	77.8
SM	38052.0	37700.6	38052.0	37708.9
AV	75.5	74.8	75.5	74.8

MONTHLY SUMMARY (NOV)

MN	71.5	73.4	71.5	73.4
MX	75.5	83.3	75.5	83.4
SM	36204.0	35745.0	36220.0	35760.0
AV	75.4	74.5	75.5	74.5

MONTHLY SUMMARY (DEC)

MN	71.5	73.3	71.5	73.3
MX	75.5	75.5	75.5	75.5
SM	36554.0	36370.6	36606.0	36385.4
AV	74.3	73.9	74.4	74.0

YEARLY SUMMARY

MN	71.5	73.2	71.5	73.2
MX	75.5	95.1	75.5	95.1
SM	431044.0	428213.5	431248.0	428306.9
AV	75.1	74.7	75.2	74.7

MMDDHH	4MIDL	4MIDL	OINTEKTP	OINTEKTP
			ER	ER
	THERMOST	ZONE	THERMOST	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
	F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	72.8	71.5	73.0
MX	75.5	74.2	75.5	74.7
SM	35234.0	35984.3	35338.0	36065.6
AV	71.6	73.1	71.8	73.3

MONTHLY SUMMARY (FEB)

MN	71.5	72.7	71.5	72.9
MX	75.5	73.8	75.5	74.4
SM	31802.0	32483.2	31978.0	32558.7
AV	71.6	73.2	72.0	73.3

MONTHLY SUMMARY (MAR)

MN	71.5	73.1	71.5	73.2
MX	75.5	75.6	75.5	75.9
SM	33654.0	34320.2	34014.0	34409.7
AV	71.9	73.3	72.7	73.5

MONTHLY SUMMARY (APR)

MN	71.5	73.1	71.5	73.3
MX	75.5	79.0	75.5	80.0
SM	34670.0	34669.6	35038.0	34865.2
AV	74.1	74.1	74.9	74.5

MONTHLY SUMMARY (MAY)

MN	71.5	71.1	71.5	73.4
MX	75.5	93.6	75.5	96.4
SM	36922.0	37044.4	37134.0	37482.6
AV	75.0	75.3	75.5	76.2

MONTHLY SUMMARY (JUN)

MN	75.5	73.8	75.5	74.3
MX	75.5	75.8	75.5	76.1
SM	34428.0	34062.1	34428.0	34270.7
AV	75.5	74.7	75.5	75.2

MONTHLY SUMMARY (JUL)

MN	75.5	74.0	75.5	74.5
MX	75.5	75.7	75.5	76.1
SM	38052.0	37725.7	38052.0	37963.9
AV	75.5	74.9	75.5	75.3

4MIDL	4MIDL	OINTEXTP	OINTEXTP
		ER	ER
THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
F	F	F	F

----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (AUG)

MN	75.5	73.6	75.5	74.2
MX	75.5	75.9	75.5	76.2
SM	35334.0	34970.3	35334.0	35203.5
AV	75.5	74.7	75.5	75.2

MONTHLY SUMMARY (SEP)

MN	71.5	72.6	75.5	73.9
MX	75.5	75.4	75.5	75.9
SM	35298.0	34828.8	35334.0	35090.8
AV	75.4	74.4	75.5	75.0

MONTHLY SUMMARY (OCT)

MN	71.5	68.6	71.5	72.5
MX	75.5	78.8	75.5	82.6
SM	37560.0	37208.1	38020.0	37663.4
AV	74.5	73.8	75.4	74.7

MONTHLY SUMMARY (NOV)

MN	71.5	73.1	71.5	73.2
MX	75.5	80.4	75.5	81.4
SM	34772.0	35340.7	35460.0	35499.5
AV	72.4	73.6	73.9	74.0

MONTHLY SUMMARY (DEC)

MN	71.5	72.9	71.5	73.1
MX	75.5	74.4	75.5	75.4
SM	35334.0	36026.2	35518.0	36129.8
AV	71.8	73.2	72.2	73.4

YEARLY SUMMARY

MN	71.5	68.6	71.5	72.5
MX	75.5	93.6	75.5	96.4
SM	423060.0	424663.5	425648.0	427203.4
AV	73.8	74.0	74.2	74.5

DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
WEATHER FILE- NEWARK, NJ

ENTECH ENGINEERING E2DOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)											
	0	--	10	--	20	--	30	--	40	--	50	--						60	--	70	--	80	--	90	--	100	-	110+
HW-BOILER	2736		641		642		475		338		142		64		33		12		4		1			5088	3673.8	0.0	236.0	5321.7
	2736		641		642		475		338		142		64		33		12		4		1							
HERM-CENT-CHLR	1064		511		805		487		340		337		117		11		0		0		0			3672	8597.3	0.0	1960.2	0.0
	1064		511		805		487		340		337		117		11		0		0		0							
COOLING-TWR	1229		566		601		328		161		118		149		126		106		100		188			3672	10557.6	0.0	814.0	0.0
	1229		566		601		328		161		118		149		126		106		100		188							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 174.8 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 907.9 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
READING, PA 19603
REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3673.8	100.0
	-----	-----
LOAD SATISFIED	3673.8	100.0
TOTAL LOAD ON PLANT	3673.8	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8597.3	100.0
	-----	-----
LOAD SATISFIED	8597.3	100.0
TOTAL LOAD ON PLANT	8597.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	23097.8	100.0
	-----	-----
LOAD SATISFIED	23097.8	100.0
TOTAL LOAD ON PLANT	23097.5	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 85.F

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3673.8	3673.8	0.000	0.000	0
COOLING LOADS	8597.3	8597.3	0.000	0.000	0
ELECTRICAL LOADS	23097.5	23097.8	0.000	0.000	0

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	235.96	5321.68
SPACE COOL	2774.24	0.00
HVAC AUX	5307.58	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.40	0.00
	-----	-----
TOTAL	23097.73	5321.68

TOTAL SITE ENERGY	28419.50 MBTU	86.2 KBTU/SQFT-YR GROSS-AREA	86.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74684.37 MBTU	226.6 KBTU/SQFT-YR GROSS-AREA	226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	4734563.	885751.	76.9	55.5	1950.0	5.8	140410.	90465.
SM	204805856.	69268752.	16615.6	13621.8	491400.0	301.9	29106086.	22797268.
AV	416272.	140790.	33.8	27.7	998.8	0.6	59159.	46336.
MONTHLY SUMMARY (JUN)								
MN	289191.	136381.	64.5	53.9	1950.0	0.5	106147.	90465.
MX	4389327.	853501.	80.0	55.4	1950.0	5.5	140410.	90465.
SM	815711680.	206956576.	31425.9	24815.9	889200.1	1086.1	59935544.	41252200.
AV	1788841.	453852.	68.9	54.4	1950.0	2.4	131438.	90465.
MONTHLY SUMMARY (JUL)								
MN	341720.	161215.	65.0	53.9	1950.0	0.6	114031.	90465.
MX	4326828.	847222.	79.0	55.4	1950.0	5.4	140410.	90465.
SM	1108698368.	261142528.	35685.2	27505.7	982800.1	1445.9	68744472.	45594536.
AV	2199798.	518140.	70.8	54.6	1950.0	2.9	136398.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
----(1)	----(3)	----(12)	----(13)	----(8)	----(10)	----(20)	----(21)
MONTHLY SUMMARY (AUG)							
MN 289191.	136381.	64.9	53.9	1950.0	0.5	108731.	90465.
MX 4591155.	926070.	83.0	55.5	1950.0	5.7	140410.	90465.
SM 897506496.	223031584.	33148.2	25491.5	912600.1	1187.4	62609704.	42337780.
AV 1917749.	476563.	70.8	54.5	1950.0	2.5	133781.	90465.
MONTHLY SUMMARY (SEP)							
MN 289191.	136381.	65.0	53.9	1950.0	0.5	106147.	90465.
MX 3365087.	676081.	78.0	55.0	1950.0	4.2	140410.	90465.
SM 577829248.	172632304.	32075.1	25371.7	912600.1	808.1	59208216.	42337784.
AV 1234678.	368872.	68.5	54.2	1950.0	1.7	126513.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 2556596.	554104.	70.0	54.7	1950.0	3.3	140212.	90465.
SM 114714480.	49044764.	16451.0	13588.0	491400.0	188.9	28122556.	22797272.
AV 227608.	97311.	32.6	27.0	975.0	0.4	55799.	45233.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 4734563.	926070.	83.0	55.5	1950.0	5.8	140410.	90465.
SM 3719266048.	982076544.	165401.0	130394.6	4680000.5	5018.3	307726592.	217116832.
AV 648408.	171213.	28.8	22.7	815.9	0.9	53648.	37852.

ENTECH ENGINEERING
READING, PA 19603
RP_2 = HOURLY-REPORT

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ
DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	---- (1)	---- (3)	---- (4)	---- (7)
MONTHLY SUMMARY (JAN)				
MN	162239.	14277.	254516.	4648277.
MX	4169796.	102262.	5092058.	4648277.
SM	823017984.	45530488.	1153649792.	2286952448.
AV	1672801.	92542.	2344817.	4648278.
MONTHLY SUMMARY (FEB)				
MN	15403.	1356.	24165.	4648277.
MX	4648277.	102262.	5577933.	4648277.
SM	719964032.	38768240.	1003392000.	2063835008.
AV	1621541.	87316.	2259892.	4648277.
MONTHLY SUMMARY (MAR)				
MN	15403.	1356.	24165.	4648277.
MX	2533265.	102262.	3359322.	4648277.
SM	464817216.	33754812.	693906112.	2175393536.
AV	993199.	72126.	1482705.	4648277.
MONTHLY SUMMARY (APR)				
MN	15403.	1356.	24165.	4648277.
MX	1909794.	102262.	2670332.	4648277.
SM	144827648.	11859749.	222878928.	2175393792.
AV	309461.	25341.	476237.	4648278.
MONTHLY SUMMARY (MAY)				
MN	0.	0.	0.	0.
MX	348861.	30700.	547284.	4648277.
SM	15838597.	1393796.	24847180.	1115586560.
AV	32192.	2833.	50502.	2267452.
MONTHLY SUMMARY (JUN)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (JUL)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

EMTECH ENGINEERING
READING, PA 19603
RP_2 - HOURLY-REPORT

SZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 7/ 2/1996 16:24:42 PDL RUN 1
PTMOACO - SIM MCA H2O ONLY W/OA SCHED1

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	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	----(1)	----(3)	----(4)	----(7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	901315.	79316.	1413960.	4648277.
SM	27343130.	2406196.	42895200.	1171365888.
AV	54252.	4774.	85110.	2324139.
MONTHLY SUMMARY (NOV)				
MN	15403.	1356.	24165.	4648277.
MX	2355515.	102262.	3164516.	4648277.
SM	319433728.	24739036.	484560256.	2231172864.
AV	665487.	51540.	1009501.	4648277.
MONTHLY SUMMARY (DEC)				
MN	15403.	1356.	24165.	4648277.
MX	2979125.	102262.	3842268.	4648277.
SM	727572096.	42909596.	1036092032.	2286952448.
AV	1478805.	87215.	2105878.	4648278.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	4648277.	102262.	5577933.	4648277.
SM	3242814464.	201361920.	4662221312.	15506653184.
AV	565344.	35105.	812800.	2703392.

ENTECH ENGINEERING E2DOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- TION RATE	MIN MNTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MNTHLY CHARG1 (\$)	FIXED MNTHLY CHARG2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	4OPPKKWH	744	492626.	35419.79	1461.	1461.	0.00	
	BONPKDMHTG	252	299363.	0.00	1461.	1461.	12523.13	47942.91
FEB	4OPPKKWH	672	443469.	31885.46	1461.	1461.	0.00	
	BONPKDMHTG	228	269721.	0.00	1461.	1461.	12523.13	44408.58
MAR	4OPPKKWH	744	508232.	36541.90	1461.	1461.	0.00	
	BONPKDMHTG	276	325960.	0.00	1461.	1461.	12519.40	49061.30
APR	4OPPKKWH	720	471791.	33921.80	1451.	1451.	0.00	
	BONPKDMHTG	252	296752.	0.00	1451.	1451.	12431.73	46353.53
MAY	4OPPKKWH	744	567732.	40819.94	1896.	1896.	0.00	
	BONPKDMHTG	252	336181.	0.00	1896.	1896.	16244.95	57064.89
JUN	4OPPKKWH	456	286522.	20600.94	1087.	1087.	0.00	
	BONPKDMCL	264	409245.	0.00	1959.	1959.	18555.89	
	BONPKKWH	264	409245.	32780.50	1959.	1959.	0.00	71937.33
JUL	4OPPKKWH	504	325145.	23377.89	1072.	1072.	0.00	
	BONPKDMCL	240	377259.	0.00	1959.	1959.	18549.63	
	BONPKKWH	240	377259.	30218.49	1959.	1959.	0.00	72146.01
AUG	4OPPKKWH	468	297670.	21402.45	1095.	1095.	0.00	
	BONPKDMCL	276	433414.	0.00	1960.	1960.	18565.50	
	BONPKKWH	276	433414.	34716.47	1960.	1960.	0.00	74684.42
SEP	4OPPKKWH	468	281089.	20210.29	1064.	1064.	0.00	
	BONPKDMCL	252	377386.	0.00	1903.	1903.	18022.92	
	BONPKKWH	252	377386.	30228.59	1903.	1903.	0.00	68461.80
OCT	4OPPKKWH	744	538915.	38747.98	1809.	1809.	0.00	
	BONPKDMHTG	240	309509.	0.00	1809.	1809.	15506.68	54254.66
NOV	4OPPKKWH	720	465642.	33479.64	1460.	1460.	0.00	
	BONPKDMHTG	240	283059.	0.00	1460.	1460.	12515.08	45994.72

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT- 3413.00	FUEL-OIL UNIT- 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	492626.	9890.
PEAK DEMAND (UNIT/HR)	1461.	37.
TOTAL COST (\$)	47942.91	5835.19
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443469.	7948.
PEAK DEMAND (UNIT/HR)	1461.	40.
TOTAL COST (\$)	44408.58	4689.36
MAR		
ENERGY CONSUMPTION (UNIT/MO)	508232.	5637.
PEAK DEMAND (UNIT/HR)	1461.	24.
TOTAL COST (\$)	49061.30	3325.66
APR		
ENERGY CONSUMPTION (UNIT/MO)	471791.	1790.
PEAK DEMAND (UNIT/HR)	1451.	19.
TOTAL COST (\$)	46353.53	1056.25
MAY		
ENERGY CONSUMPTION (UNIT/MO)	567732.	223.
PEAK DEMAND (UNIT/HR)	1896.	4.
TOTAL COST (\$)	57064.89	131.38
JUN		
ENERGY CONSUMPTION (UNIT/MO)	695767.	0.
PEAK DEMAND (UNIT/HR)	1959.	0.
TOTAL COST (\$)	71937.33	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	702404.	0.
PEAK DEMAND (UNIT/HR)	1959.	0.
TOTAL COST (\$)	72146.01	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	731084.	0.
PEAK DEMAND (UNIT/HR)	1960.	0.
TOTAL COST (\$)	74684.42	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	658474.	0.
PEAK DEMAND (UNIT/HR)	1903.	0.
TOTAL COST (\$)	68461.80	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	538915.	364.
PEAK DEMAND (UNIT/HR)	1809.	10.
TOTAL COST (\$)	54254.66	214.71
NOV		
ENERGY CONSUMPTION (UNIT/MO)	465642.	3862.
PEAK DEMAND (UNIT/HR)	1460.	23.
TOTAL COST (\$)	45994.72	2278.46
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491445.	8658.
PEAK DEMAND (UNIT/HR)	1461.	28.
TOTAL COST (\$)	47858.02	5108.19

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6767581.	38372.
PEAK DEMAND (UNIT/HR)	1960.	40.
TOTAL COST (\$)	680168.25	22639.20

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 7/ 2/1996 16:24:42 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	4OPPKWH	744	491445.	35334.89	1461.	1461.	0.00	
	BONPKDMHTG	252	298950.	0.00	1461.	1461.	12523.13	
								47858.02
TOTAL			6767581.	499687.00			180481.17	680168.25

EC0-9

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 RS_1 = HOURLY-REPORT PAGE 1- 1

MMDDHH	1SMCAHUS ZR SUPPLY ELECTRIC KW	2SPERPC SUPPLY ELECTRIC KW	3SPERPC SUPPLY ELECTRIC KW	4SPERPC SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (JAN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (FEB)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	6855.140	347.290	347.290	407.299
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	8298.327	420.403	420.403	493.046
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (APR)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (MAY)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUN)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7937.531	402.125	402.125	471.610
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (JUL)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786

"NOT IN THE REPORT"
 ON - PERK

	1SMCAHUS	2SPERFC	3SPERFC	4SPERFC
	ZR			
	SUPPLY	SUPPLY	SUPPLY	SUPPLY
	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	KW	KW	KW	KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (AUG)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	8298.327	420.403	420.403	493.046
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (SEP)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (OCT)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (NOV)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7215.937	365.568	365.568	428.736
AV	30.066	1.523	1.523	1.786
MONTHLY SUMMARY (DEC)				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	7576.734	383.846	383.846	450.173
AV	30.066	1.523	1.523	1.786
YEARLY SUMMARY				
MN	30.066	1.523	1.523	1.786
MX	30.066	1.523	1.523	1.786
SM	90920.805	4606.157	4606.157	5402.074
AV	30.066	1.523	1.523	1.786

MMDDHH	SSZF2MID	SSPZ3MID	SSZF4MID	OSMCAHUS
	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	ZR SUPPLY ELECTRIC KW
	---- (49)	---- (49)	---- (49)	---- (49)
MONTHLY SUMMARY (JAN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (FEB)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5451.936	6669.684	6718.840	4004.046
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6599.711	8073.829	8133.333	4847.002
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (APR)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (MAY)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6025.824	7371.756	7426.086	4425.524
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUN)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	6312.768	7722.792	7779.709	4636.263
AV	23.912	29.253	29.469	17.562
MONTHLY SUMMARY (JUL)				
MN	23.912	29.253	29.469	17.562
MX	23.912	29.253	29.469	17.562
SM	5738.880	7020.720	7072.463	4214.785
AV	23.912	29.253	29.469	17.562

SSZF2MID	SSPZ3MID	SSZF4MID	OSMCAHUS ZR
SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW	SUPPLY ELECTRIC KW
----(49)	----(49)	----(49)	----(49)
MONTHLY SUMMARY (AUG)			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 6599.711	8073.829	8133.333	4847.002
AV 23.912	29.253	29.469	17.562
MONTHLY SUMMARY (SEP)			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 6025.824	7371.756	7426.086	4425.524
AV 23.912	29.253	29.469	17.562
MONTHLY SUMMARY (OCT)			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 5738.880	7020.720	7072.463	4214.785
AV 23.912	29.253	29.469	17.562
MONTHLY SUMMARY (NOV)			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 5738.880	7020.720	7072.463	4214.785
AV 23.912	29.253	29.469	17.562
MONTHLY SUMMARY (DEC)			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 6025.824	7371.756	7426.086	4425.524
AV 23.912	29.253	29.469	17.562
YEARLY SUMMARY			
MN 23.912	29.253	29.469	17.562
MX 23.912	29.253	29.469	17.562
SM 72309.883	88461.070	89113.039	53106.289
AV 23.912	29.253	29.469	17.562

MMDDHH LEXTPER LEXTPER LINTPER LINTPER

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MONTHLY SUMMARY (JAN)

MN	71.5	73.5	71.5	73.4
MX	75.5	75.8	75.5	76.1
SM	19022.0	18843.1	19018.0	18842.1
AV	75.5	74.8	75.5	74.8

MONTHLY SUMMARY (FEB)

MN	75.5	73.5	71.5	73.2
MX	75.5	75.9	75.5	76.4
SM	17214.0	17088.2	17206.0	17084.3
AV	75.5	74.9	75.5	74.9

MONTHLY SUMMARY (MAR)

MN	75.5	74.0	75.5	74.1
MX	75.5	79.8	75.5	79.6
SM	20838.0	20815.9	20838.0	20835.3
AV	75.5	75.4	75.5	75.5

MONTHLY SUMMARY (APR)

MN	75.5	74.2	75.5	74.3
MX	75.5	88.3	75.5	87.9
SM	19026.0	19448.4	19026.0	19467.6
AV	75.5	77.2	75.5	77.3

MONTHLY SUMMARY (MAY)

MN	75.5	74.8	75.5	75.2
MX	75.5	95.9	75.5	95.3
SM	19026.0	19697.4	19026.0	19775.9
AV	75.5	78.2	75.5	78.5

MONTHLY SUMMARY (JUN)

MN	75.5	75.5	75.5	75.7
MX	75.5	77.1	75.5	77.7
SM	19932.0	20168.5	19932.0	20280.0
AV	75.5	76.4	75.5	76.8

MONTHLY SUMMARY (JUL)

MN	75.5	75.6	75.5	75.8
MX	75.5	77.1	75.5	77.6
SM	18120.0	18354.5	18120.0	18442.9
AV	75.5	76.5	75.5	76.8

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MONTHLY SUMMARY (AUG)

MN	75.5	75.3	75.5	75.6
MX	75.5	77.1	75.5	77.5
SM	20838.0	21107.7	20838.0	21169.1
AV	75.5	76.5	75.5	76.7

MONTHLY SUMMARY (SEP)

MN	75.5	75.1	75.5	75.1
MX	75.5	77.0	75.5	77.6
SM	19026.0	19208.4	19026.0	19241.1
AV	75.5	76.2	75.5	76.4

MONTHLY SUMMARY (OCT)

MN	75.5	74.5	75.5	74.2
MX	75.5	82.6	75.5	81.9
SM	18120.0	18330.3	18120.0	18335.0
AV	75.5	76.4	75.5	76.4

MONTHLY SUMMARY (NOV)

MN	75.5	74.2	75.5	74.2
MX	75.5	88.5	75.5	88.7
SM	18120.0	18257.2	18120.0	18289.7
AV	75.5	76.1	75.5	76.2

MONTHLY SUMMARY (DEC)

MN	75.5	73.8	75.5	73.6
MX	75.5	77.7	75.5	77.5
SM	19026.0	18889.4	19026.0	18914.2
AV	75.5	75.0	75.5	75.1

YEARLY SUMMARY

MN	71.5	73.5	71.5	73.2
MX	75.5	95.9	75.5	95.3
SM	228308.0	230209.0	228296.0	230677.3
AV	75.5	76.1	75.5	76.3

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MONTHLY SUMMARY (JAN)

MN	71.5	72.3	71.5	72.3
MX	75.5	78.8	75.5	79.6
SM	18514.0	18715.6	18550.0	18762.4
AV	73.5	74.3	73.6	74.5

MONTHLY SUMMARY (FEB)

MN	71.5	72.9	71.5	72.9
MX	75.5	79.1	75.5	79.8
SM	16898.0	17067.2	16914.0	17123.0
AV	74.1	74.9	74.2	75.1

MONTHLY SUMMARY (MAR)

MN	71.5	72.8	71.5	72.8
MX	75.5	85.3	75.5	86.2
SM	20594.0	21122.0	20622.0	21202.6
AV	74.6	76.5	74.7	76.8

MONTHLY SUMMARY (APR)

MN	71.5	73.1	71.5	73.1
MX	75.5	100.4	75.5	101.6
SM	18978.0	21348.4	18978.0	21513.0
AV	75.3	84.7	75.3	85.4

MONTHLY SUMMARY (MAY)

MN	71.5	71.3	71.5	71.4
MX	75.5	104.4	75.5	105.1
SM	18998.0	20768.4	19002.0	20857.1
AV	75.4	82.4	75.4	82.8

MONTHLY SUMMARY (JUN)

MN	75.5	74.5	75.5	74.4
MX	75.5	76.9	75.5	76.9
SM	19932.0	19970.9	19932.0	19964.5
AV	75.5	75.6	75.5	75.6

MONTHLY SUMMARY (JUL)

MN	75.5	74.5	75.5	74.5
MX	75.5	76.8	75.5	76.7
SM	18120.0	18184.2	18120.0	18177.9
AV	75.5	75.8	75.5	75.7

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MONTHLY SUMMARY (AUG)

MN	75.5	74.4	75.5	74.4
MX	75.5	76.9	75.5	76.9
SM	20838.0	20909.4	20838.0	20910.2
AV	75.5	75.8	75.5	75.8

MONTHLY SUMMARY (SEP)

MN	71.5	73.3	75.5	73.6
MX	75.5	76.3	75.5	76.4
SM	19022.0	18965.5	19026.0	18977.9
AV	75.5	75.3	75.5	75.3

MONTHLY SUMMARY (OCT)

MN	71.5	70.4	71.5	71.3
MX	75.5	92.5	75.5	94.6
SM	18096.0	18950.6	18104.0	19103.8
AV	75.4	79.0	75.4	79.6

MONTHLY SUMMARY (NOV)

MN	71.5	73.0	71.5	73.0
MX	75.5	94.2	75.5	95.0
SM	17964.0	19000.7	17984.0	19138.4
AV	74.8	79.2	74.9	79.7

MONTHLY SUMMARY (DEC)

MN	71.5	72.7	71.5	72.8
MX	75.5	82.4	75.5	83.7
SM	18522.0	18774.5	18566.0	18819.8
AV	73.5	74.5	73.7	74.7

YEARLY SUMMARY

MN	71.5	70.4	71.5	71.3
MX	75.5	104.4	75.5	105.1
SM	226476.0	233777.4	226636.0	234550.7
AV	74.9	77.3	74.9	77.6

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MONTHLY SUMMARY (JAN)

MN	71.5	72.3	71.5	72.3
MX	75.5	78.8	75.5	79.6
SM	18514.0	18715.6	18550.0	18762.4
AV	73.5	74.3	73.6	74.5

MONTHLY SUMMARY (FEB)

MN	71.5	72.9	71.5	72.9
MX	75.5	79.1	75.5	79.8
SM	16898.0	17067.2	16914.0	17123.0
AV	74.1	74.9	74.2	75.1

MONTHLY SUMMARY (MAR)

MN	71.5	72.8	71.5	72.8
MX	75.5	85.3	75.5	86.2
SM	20594.0	21121.9	20622.0	21202.6
AV	74.6	76.5	74.7	76.8

MONTHLY SUMMARY (APR)

MN	71.5	73.1	71.5	73.1
MX	75.5	100.4	75.5	101.6
SM	18978.0	21348.4	18978.0	21513.0
AV	75.3	84.7	75.3	85.4

MONTHLY SUMMARY (MAY)

MN	71.5	71.3	71.5	71.4
MX	75.5	104.4	75.5	105.1
SM	18998.0	20768.4	19002.0	20857.1
AV	75.4	82.4	75.4	82.8

MONTHLY SUMMARY (JUN)

MN	75.5	74.5	75.5	74.4
MX	75.5	76.9	75.5	76.9
SM	19932.0	19970.9	19932.0	19964.5
AV	75.5	75.6	75.5	75.6

MONTHLY SUMMARY (JUL)

MN	75.5	74.5	75.5	74.5
MX	75.5	76.8	75.5	76.7
SM	18120.0	18184.3	18120.0	18177.9
AV	75.5	75.8	75.5	75.7

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MONTHLY SUMMARY (AUG)

MN	75.5	74.4	75.5	74.4
MX	75.5	76.9	75.5	76.9
SM	20838.0	20909.4	20838.0	20910.2
AV	75.5	75.8	75.5	75.8

MONTHLY SUMMARY (SEP)

MN	71.5	73.3	75.5	73.6
MX	75.5	76.3	75.5	76.4
SM	19022.0	18965.5	19026.0	18977.9
AV	75.5	75.3	75.5	75.3

MONTHLY SUMMARY (OCT)

MN	71.5	70.4	71.5	71.3
MX	75.5	92.5	75.5	94.6
SM	18096.0	18950.5	18104.0	19103.8
AV	75.4	79.0	75.4	79.6

MONTHLY SUMMARY (NOV)

MN	71.5	73.0	71.5	73.0
MX	75.5	94.2	75.5	95.0
SM	17964.0	19000.6	17984.0	19138.4
AV	74.8	79.2	74.9	79.7

MONTHLY SUMMARY (DEC)

MN	71.5	72.7	71.5	72.8
MX	75.5	82.4	75.5	83.7
SM	18522.0	18774.4	18566.0	18819.8
AV	73.5	74.5	73.7	74.7

YEARLY SUMMARY

MN	71.5	70.4	71.5	71.3
MX	75.5	104.4	75.5	105.1
SM	226476.0	233777.1	226636.0	234550.7
AV	74.9	77.3	74.9	77.6

MMDDHH 4EXTPER 4EXTPER 4INTPER 4INTPER

THERMOST	ZONE	THERMOST	ZONE
SETPOINT	TEMP	SETPOINT	TEMP
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MONTHLY SUMMARY (JAN)

MN	71.5	72.2	71.5	72.2
MX	75.5	76.5	75.5	77.5
SM	18178.0	18495.3	18218.0	18515.3
AV	72.1	73.4	72.3	73.5

MONTHLY SUMMARY (FEB)

MN	71.5	72.7	71.5	72.7
MX	75.5	76.5	75.5	77.2
SM	16582.0	16803.2	16618.0	16832.4
AV	72.7	73.7	72.9	73.8

MONTHLY SUMMARY (MAR)

MN	71.5	72.7	71.5	72.7
MX	75.5	82.8	75.5	83.3
SM	20358.0	20705.7	20378.0	20743.8
AV	73.8	75.0	73.8	75.2

MONTHLY SUMMARY (APR)

MN	71.5	73.0	71.5	73.0
MX	75.5	94.4	75.5	95.2
SM	18910.0	20293.5	18910.0	20371.9
AV	75.0	80.5	75.0	80.8

MONTHLY SUMMARY (MAY)

MN	71.5	69.1	71.5	69.3
MX	75.5	101.1	75.5	101.5
SM	18966.0	20157.6	18966.0	20198.7
AV	75.3	80.0	75.3	80.2

MONTHLY SUMMARY (JUN)

MN	75.5	74.1	75.5	74.0
MX	75.5	77.0	75.5	76.9
SM	19932.0	19938.4	19932.0	19937.5
AV	75.5	75.5	75.5	75.5

MONTHLY SUMMARY (JUL)

MN	75.5	74.3	75.5	74.3
MX	75.5	76.8	75.5	76.7
SM	18120.0	18164.2	18120.0	18163.3
AV	75.5	75.7	75.5	75.7

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MONTHLY SUMMARY (AUG)

MN	75.5	73.8	75.5	73.8
MX	75.5	76.9	75.5	76.9
SM	20838.0	20880.3	20838.0	20886.4
AV	75.5	75.7	75.5	75.7

MONTHLY SUMMARY (SEP)

MN	71.5	71.1	71.5	71.5
MX	75.5	76.3	75.5	76.3
SM	19010.0	18901.1	19014.0	18917.6
AV	75.4	75.0	75.5	75.1

MONTHLY SUMMARY (OCT)

MN	71.5	65.1	71.5	66.0
MX	75.5	86.0	75.5	87.3
SM	17988.0	18348.1	18020.0	18452.7
AV	74.9	76.5	75.1	76.9

MONTHLY SUMMARY (NOV)

MN	71.5	72.9	71.5	72.9
MX	75.5	88.6	75.5	89.1
SM	17768.0	18376.6	17820.0	18429.6
AV	74.0	76.6	74.3	76.8

MONTHLY SUMMARY (DEC)

MN	71.5	72.6	71.5	72.7
MX	75.5	80.1	75.5	80.9
SM	18210.0	18560.2	18242.0	18580.1
AV	72.3	73.7	72.4	73.7

YEARLY SUMMARY

MN	71.5	65.1	71.5	66.0
MX	75.5	101.1	75.5	101.5
SM	224860.0	229624.2	225076.0	230029.4
AV	74.4	75.9	74.4	76.1

MMDDHH	2MIDL	2MIDL	3MIDL	3MIDL
	THERMOST	ZONE	THERMOST	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
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----	(7)	----	(7)	----
----	(6)	----	(7)	----
----	(6)	----	(6)	----
MONTHLY SUMMARY (JAN)				
MN	75.5	74.5	75.5	74.5
MX	75.5	76.4	75.5	76.4
SM	19026.0	19040.8	19026.0	19051.4
AV	75.5	75.6	75.5	75.6
MONTHLY SUMMARY (FEB)				
MN	75.5	74.4	75.5	74.5
MX	75.5	76.5	75.5	76.5
SM	17214.0	17249.8	17214.0	17258.2
AV	75.5	75.7	75.5	75.7
MONTHLY SUMMARY (MAR)				
MN	75.5	75.0	75.5	75.0
MX	75.5	80.5	75.5	80.6
SM	20838.0	20979.4	20838.0	20987.2
AV	75.5	76.0	75.5	76.0
MONTHLY SUMMARY (APR)				
MN	75.5	75.0	75.5	75.0
MX	75.5	88.7	75.5	88.7
SM	19026.0	19587.6	19026.0	19593.7
AV	75.5	77.7	75.5	77.8
MONTHLY SUMMARY (MAY)				
MN	75.5	75.3	75.5	75.4
MX	75.5	96.2	75.5	96.2
SM	19026.0	19801.2	19026.0	19804.6
AV	75.5	78.6	75.5	78.6
MONTHLY SUMMARY (JUN)				
MN	75.5	75.6	75.5	75.6
MX	75.5	77.1	75.5	77.1
SM	19932.0	20210.1	19932.0	20211.3
AV	75.5	76.6	75.5	76.6
MONTHLY SUMMARY (JUL)				
MN	75.5	75.7	75.5	75.7
MX	75.5	77.1	75.5	77.1
SM	18120.0	18388.3	18120.0	18389.0
AV	75.5	76.6	75.5	76.6

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THERMOST ZONE THERMOST ZONE
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MONTHLY SUMMARY (AUG)

MN	75.5	75.5	75.5	75.6
MX	75.5	77.2	75.5	77.2
SM	20838.0	21141.3	20838.0	21142.3
AV	75.5	76.6	75.5	76.6

MONTHLY SUMMARY (SEP)

MN	75.5	75.4	75.5	75.4
MX	75.5	77.1	75.5	77.1
SM	19026.0	19254.4	19026.0	19256.8
AV	75.5	76.4	75.5	76.4

MONTHLY SUMMARY (OCT)

MN	75.5	75.1	75.5	75.2
MX	75.5	83.0	75.5	83.0
SM	18120.0	18439.8	18120.0	18445.7
AV	75.5	76.8	75.5	76.9

MONTHLY SUMMARY (NOV)

MN	75.5	74.9	75.5	74.9
MX	75.5	90.6	75.5	90.7
SM	18120.0	18446.1	18120.0	18455.2
AV	75.5	76.9	75.5	76.9

MONTHLY SUMMARY (DEC)

MN	75.5	74.6	75.5	74.7
MX	75.5	78.6	75.5	78.7
SM	19026.0	19079.9	19026.0	19089.6
AV	75.5	75.7	75.5	75.8

YEARLY SUMMARY

MN	75.5	74.4	75.5	74.5
MX	75.5	96.2	75.5	96.2
SM	228312.0	231618.8	228312.0	231685.0
AV	75.5	76.6	75.5	76.6

MMDDHH	4MIDL	4MIDL	OINTEXTP	OINTEXTP
			ER	ER
	THERMOST	ZONE	THERMOST	ZONE
	SETPOINT	TEMP	SETPOINT	TEMP
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----(7) ----(6) ----(7) ----(6)

MONTHLY SUMMARY (JAN)

MN	71.5	73.1	71.5	73.2
MX	75.5	75.2	75.5	75.1
SM	18786.0	18645.6	18802.0	18651.6
AV	74.5	74.0	74.6	74.0

MONTHLY SUMMARY (FEB)

MN	71.5	73.2	71.5	73.3
MX	75.5	75.4	75.5	75.3
SM	17102.0	16920.4	17106.0	16921.6
AV	75.0	74.2	75.0	74.2

MONTHLY SUMMARY (MAR)

MN	71.5	73.4	71.5	73.4
MX	75.5	78.6	75.5	79.0
SM	20822.0	20633.2	20814.0	20641.6
AV	75.4	74.8	75.4	74.8

MONTHLY SUMMARY (APR)

MN	75.5	73.6	75.5	73.6
MX	75.5	87.9	75.5	89.2
SM	19026.0	19294.0	19026.0	19329.1
AV	75.5	76.6	75.5	76.7

MONTHLY SUMMARY (MAY)

MN	75.5	74.2	75.5	74.3
MX	75.5	95.4	75.5	97.7
SM	19026.0	19562.9	19026.0	19652.2
AV	75.5	77.6	75.5	78.0

MONTHLY SUMMARY (JUN)

MN	75.5	75.0	75.5	75.3
MX	75.5	77.1	75.5	77.1
SM	19932.0	20107.2	19932.0	20134.5
AV	75.5	76.2	75.5	76.3

MONTHLY SUMMARY (JUL)

MN	75.5	75.2	75.5	75.5
MX	75.5	77.0	75.5	77.1
SM	18120.0	18312.2	18120.0	18336.9
AV	75.5	76.3	75.5	76.4

4MIDL	4MIDL	OINTEXTP	OINTEXTP
THERMOST	ZONE	ER	ER
SETPOINT	TEMP	THERMOST	ZONE
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F	F	F	F

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MONTHLY SUMMARY (AUG)

MN	75.5	74.9	75.5	75.2
MX	75.5	77.0	75.5	77.1
SM	20838.0	21047.8	20838.0	21089.5
AV	75.5	76.3	75.5	76.4

MONTHLY SUMMARY (SEP)

MN	75.5	74.5	75.5	74.9
MX	75.5	76.8	75.5	76.9
SM	19026.0	19108.1	19026.0	19166.4
AV	75.5	75.8	75.5	76.1

MONTHLY SUMMARY (OCT)

MN	71.5	71.8	75.5	74.2
MX	75.5	82.1	75.5	83.3
SM	18112.0	18176.5	18120.0	18255.3
AV	75.5	75.7	75.5	76.1

MONTHLY SUMMARY (NOV)

MN	71.5	73.5	75.5	73.5
MX	75.5	88.0	75.5	89.1
SM	18116.0	18094.7	18120.0	18126.0
AV	75.5	75.4	75.5	75.5

MONTHLY SUMMARY (DEC)

MN	71.5	73.3	71.5	73.3
MX	75.5	77.0	75.5	77.2
SM	18886.0	18699.4	18914.0	18709.7
AV	74.9	74.2	75.1	74.2

YEARLY SUMMARY

MN	71.5	71.8	71.5	73.2
MX	75.5	95.4	75.5	97.7
SM	227792.0	228602.1	227844.0	229014.1
AV	75.3	75.6	75.3	75.7

DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
WEATHER FILE- NEWARK, NJ

[illegible]

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEWARK, NJ

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (MBTU)	THERMAL USED (MBTU)									
	0	--	10	--	20	--	30	--	40	--	50	--	60						--	70	--	80	--	90	--	100	-
HW-BOILER	2736		641		642		475		338		142		64		33		12		4		1		5088	3673.8	0.0	236.0	5321.7
	2736		641		642		475		338		142		64		33		12		4		1						
HERM-CENT-CHLR	1064		511		805		487		340		337		117		11		0		0		0		3672	8597.3	0.0	1960.2	0.0
	1064		511		805		487		340		337		117		11		0		0		0						
COOLING-TWR	1229		566		601		328		161		118		149		126		106		100		188		3672	10557.6	0.0	814.0	0.0
	1229		566		601		328		161		118		149		126		106		100		188						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 174.8 MBTU
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 907.9 MBTU

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-D PLANT LOADS SATISFIED

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
 FIMOACO - SIM MCA H2O ONLY W/OA SCHED1
 WEATHER FILE- NEWARK, NJ

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	3673.8	100.0
-----	-----	-----
LOAD SATISFIED	3673.8	100.0
TOTAL LOAD ON PLANT	3673.8	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HERM-CENT-CHLR	8597.3	100.0
-----	-----	-----
LOAD SATISFIED	8597.3	100.0
TOTAL LOAD ON PLANT	8597.3	
ELECTRICAL LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	23097.8	100.0
-----	-----	-----
LOAD SATISFIED	23097.8	100.0
TOTAL LOAD ON PLANT	23097.5	

TOWER ABOVE DESIGN TEMPERATURE OF 85.F 1 HOURS
 MAXIMUM TOWER EXIT TEMPERATURE = 85.F

ENTECH ENGINEERING HZDOR - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEWARK, NJ
 -----(CONTINUED)-----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
HEATING LOADS	3673.8	3673.8	0.000	0.000	0
COOLING LOADS	8597.3	8597.3	0.000	0.000	0
ELECTRICAL LOADS	23097.5	23097.8	0.000	0.000	0

ENTECH ENGINEERING	BZDOE - ELITE SOFTWARE DEVELOPMENT INC	DOE-2.1D	6/27/1996	16:27:41	PDL RUN 1
READING, PA 19603	4130.05 FT. MONMOUTH - MYER CENTER, NJ	FTMOACO - SIM MCA H20 ONLY W/OA SCHD1			
REPORT- PS-H EQUIPMENT USE STATISTICS		WEATHER FILE- NEWARK, NJ			

BZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1

FTMOAC0 - SIM MCA H2O ONLY W/OA SCHD1

WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
HW-BOILER	0.155	4.648	2 20 3	4.648	5088						
HEAT-EXCH-CHLR	0.300	6.956	8 18 15	7.800	3672						
COOLING-TWR	0.302	8.375	8 18 15	2.379	14688						

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 PDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- BEPS ESTIMATED BUILDING ENERGY PERFORMANCE WEATHER FILE- NEWARK, NJ

ENERGY TYPE IN SITE MBTU -	ELECTRICITY	FUEL-OIL
CATEGORY OF USE		
SPACE HEAT	235.96	5321.68
SPACE COOL	2774.24	0.00
HVAC AUX	5307.58	0.00
DOM HOT WTR	0.00	0.00
AUX SOLAR	0.00	0.00
LIGHTS	10258.56	0.00
VERT TRANS	0.00	0.00
MISC EQUIP	4521.40	0.00
	-----	-----
TOTAL	23097.73	5321.68

TOTAL SITE ENERGY	28419.50 MBTU	86.2 KBTU/SQFT-YR GROSS-AREA	86.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	74684.37 MBTU	226.6 KBTU/SQFT-YR GROSS-AREA	226.6 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE ELECTRICITY AND/OR FUEL USED TO GENERATE ELECTRICITY IS APPORTIONED BASED
 ON THE YEARLY DEMAND. ALL OTHER ENERGY TYPES ARE APPORTIONED HOURLY.

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR ---- (1)	HERM-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3)	HERM-CEN T-CHLR ENTERING COND TEM F ---- (12)	HERM-CEN T-CHLR LEAVING COLD TEM F ---- (13)	COOLING- TWR WATER FLOWRATE GAL/MIN ---- (8)	COOLING- TWR RANGE R ---- (10)	COOLING- TWR FAN ELEC BTU/HR ---- (20)	COOLING- TWR PUMP ELEC BTU/HR ---- (21)
MONTHLY SUMMARY (JAN)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (FEB)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (APR)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM	0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX	6000451.	1179016.	79.9	56.0	1950.0	7.4	140410.	90465.
SM	365947136.	78225192.	8926.2	7232.2	257400.0	466.2	17391252.	11941428.
AV	1452171.	310417.	35.4	28.7	1021.4	1.9	69013.	47387.
MONTHLY SUMMARY (JUN)								
MN	1015087.	387913.	64.5	54.1	1950.0	1.5	118667.	90465.
MX	6886767.	1408817.	83.5	56.3	1950.0	8.6	140410.	90465.
SM	1127043840.	220363632.	19075.1	14612.5	514800.0	1402.9	36755700.	23882852.
AV	4269106.	834711.	72.3	55.4	1950.0	5.3	139226.	90465.
MONTHLY SUMMARY (JUL)								
MN	1311041.	413325.	64.5	54.2	1950.0	1.9	132391.	90465.
MX	6717490.	1356482.	82.0	56.3	1950.0	8.4	140410.	90465.
SM	1135056768.	217876976.	17724.1	13325.6	468000.0	1406.5	33679548.	21711684.
AV	4729403.	907821.	73.9	55.5	1950.0	5.9	140331.	90465.

HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	HERM-CEN T-CHLR ENTERING COND TEM F	HERM-CEN T-CHLR LEAVING COLD TEM F	COOLING- TWR WATER FLOWRATE GAL/MIN	COOLING- TWR RANGE R	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
---- (1)	---- (3)	---- (12)	---- (13)	---- (8)	---- (10)	---- (20)	---- (21)
MONTHLY SUMMARY (AUG)							
MN 894222.	378119.	64.6	54.1	1950.0	1.4	124162.	90465.
MX 6956289.	1418906.	85.3	56.3	1950.0	8.7	140410.	90465.
SM 1282126848.	249123264.	20417.3	15315.6	538200.1	1592.3	38684532.	24968436.
AV 4645387.	902621.	74.0	55.5	1950.0	5.8	140161.	90465.
MONTHLY SUMMARY (SEP)							
MN 439230.	207365.	64.4	53.9	1950.0	0.7	109354.	90465.
MX 5895004.	1166655.	81.9	56.0	1950.0	7.3	140410.	90465.
SM 802535552.	166128400.	17338.8	13845.9	491400.0	1013.7	34057108.	22797268.
AV 3184665.	659240.	68.8	54.9	1950.0	4.0	135147.	90465.
MONTHLY SUMMARY (OCT)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 4687710.	866799.	70.5	55.5	1950.0	5.8	140410.	90465.
SM 165302800.	46462144.	7049.0	5867.0	210600.0	226.0	13478706.	9770260.
AV 688762.	193592.	29.4	24.4	877.5	0.9	56161.	40709.
MONTHLY SUMMARY (NOV)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MONTHLY SUMMARY (DEC)							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 0.	0.	0.0	0.0	0.0	0.0	0.	0.
SM 0.	0.	0.0	0.0	0.0	0.0	0.	0.
AV 0.	0.	0.0	0.0	0.0	0.0	0.	0.
YEARLY SUMMARY							
MN 0.	0.	0.0	0.0	0.0	0.0	0.	0.
MX 6956289.	1418906.	85.3	56.3	1950.0	8.7	140410.	90465.
SM 4878012928.	978179584.	90530.5	70198.9	2480400.3	6107.7	174046832.	115071920.
AV 1613100.	323472.	29.9	23.2	820.2	2.0	57555.	38053.

ENTECH ENGINEERING
READING, PA 19603
RP_2 = HOURLY-REPORT

EZDOS - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOB-2.1D 6/27/1996 16:27:41 PDL RUN 1
FTMOAC0 - SIM MCA H20 ONLY W/OA SCHED

PAGE 1- 1

MMDDHH	HW-BOILE R LOAD BTU/HR	HW-BOILE R ELECTRIC USE BTU/HR	HW-BOILE R FUEL USE BTU/HR	HW-BOILE R CAPACITY RUNNING BTU/HR
	---- (1)	---- (3)	---- (4)	---- (7)

MONTHLY SUMMARY (JAN)

MN	15403.	1356.	24165.	4648277.
MX	2978234.	102262.	3841311.	4648277.
SM	147403680.	10336617.	218015296.	1171365760.
AV	584935.	41018.	865140.	4648277.

MONTHLY SUMMARY (FEB)

MN	15403.	1356.	24165.	4648277.
MX	1744793.	102262.	2485326.	4648277.
SM	63301488.	5492584.	98924976.	1059807168.
AV	277638.	24090.	433881.	4648277.

MONTHLY SUMMARY (MAR)

MN	15403.	1356.	24165.	4648277.
MX	1683503.	102262.	2416321.	4648277.
SM	56578544.	4792177.	87849896.	1282924416.
AV	204995.	17363.	318297.	4648277.

MONTHLY SUMMARY (APR)

MN	15403.	1356.	24165.	4648277.
MX	1024598.	90165.	1607362.	4648277.
SM	16198086.	1425432.	25411140.	1171365760.
AV	64278.	5656.	100838.	4648277.

MONTHLY SUMMARY (MAY)

MN	0.	0.	0.	0.
MX	180877.	15917.	283756.	4648277.
SM	3847751.	338602.	6036252.	557793216.
AV	15269.	1344.	23953.	2213465.

MONTHLY SUMMARY (JUN)

MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

MONTHLY SUMMARY (JUL)

MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.

	HW-BOILE R LOAD BTU/HR ---- (1)	HW-BOILE R ELECTRIC USE BTU/HR ---- (3)	HW-BOILE R FUEL USE BTU/HR ---- (4)	HW-BOILE R CAPACITY RUNNING BTU/HR ---- (7)
MONTHLY SUMMARY (AUG)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (SEP)				
MN	0.	0.	0.	0.
MX	0.	0.	0.	0.
SM	0.	0.	0.	0.
AV	0.	0.	0.	0.
MONTHLY SUMMARY (OCT)				
MN	0.	0.	0.	0.
MX	218615.	19238.	342957.	4648277.
SM	4828828.	424937.	7575341.	613572544.
AV	20120.	1771.	31564.	2556552.
MONTHLY SUMMARY (NOV)				
MN	15403.	1356.	24165.	4648277.
MX	1286277.	102262.	1965361.	4648277.
SM	32571738.	2852791.	51032784.	1115586432.
AV	135716.	11887.	212637.	4648277.
MONTHLY SUMMARY (DEC)				
MN	15403.	1356.	24165.	4648277.
MX	1900431.	102262.	2659863.	4648277.
SM	106300208.	8927519.	164678864.	1171365760.
AV	421826.	35427.	653488.	4648277.
YEARLY SUMMARY				
MN	0.	0.	0.	0.
MX	2978234.	102262.	3841311.	4648277.
SM	431030336.	34590656.	659524544.	8143781376.
AV	142536.	11439.	218097.	2693050.

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/27/1996 16:27:41 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 REPORT- EV-B COST OF FUELS AND UTILITIES

ENERGY SOURCE	ENERGY UNIT (BTU)	UNIFORM COST /UNIT (\$)	COST ESCLA- ATION RATE	MIN MONTHLY CHARGE (\$)	RATE LIMIT /UNIT (\$)	FIXED MONTHLY CHARGE1 (\$)	FIXED MONTHLY CHARGE2 (\$)	ASSIGN- SCHEDULE (U-NAME)	ASSIGN- CHARGE1 (U-NAME)	ASSIGN- CHARGE2 (U-NAME)
ELECTRIC	3413.00	0.0000	5.000	0.00	1000000.000	0.00	0.00	YELEC1		
FUEL-OIL	138690.00	0.5900	5.000	0.00	1000000.000	0.00	0.00			

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/27/1996 16:27:41 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT- 3413.00	FUEL-OIL UNIT- 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	492626.	9890.
PEAK DEMAND (UNIT/HR)	1461.	37.
TOTAL COST (\$)	47942.91	5835.19
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443469.	7948.
PEAK DEMAND (UNIT/HR)	1461.	40.
TOTAL COST (\$)	44408.58	4689.36
MAR		
ENERGY CONSUMPTION (UNIT/MO)	508232.	5637.
PEAK DEMAND (UNIT/HR)	1461.	24.
TOTAL COST (\$)	49061.30	3325.66
APR		
ENERGY CONSUMPTION (UNIT/MO)	471791.	1790.
PEAK DEMAND (UNIT/HR)	1451.	19.
TOTAL COST (\$)	46353.53	1056.25
MAY		
ENERGY CONSUMPTION (UNIT/MO)	567732.	223.
PEAK DEMAND (UNIT/HR)	1896.	4.
TOTAL COST (\$)	57064.89	131.38
JUN		
ENERGY CONSUMPTION (UNIT/MO)	695767.	0.
PEAK DEMAND (UNIT/HR)	1959.	0.
TOTAL COST (\$)	71937.33	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	702404.	0.
PEAK DEMAND (UNIT/HR)	1959.	0.
TOTAL COST (\$)	72146.01	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	731084.	0.
PEAK DEMAND (UNIT/HR)	1960.	0.
TOTAL COST (\$)	74684.42	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	658474.	0.
PEAK DEMAND (UNIT/HR)	1903.	0.
TOTAL COST (\$)	68461.80	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	538915.	364.
PEAK DEMAND (UNIT/HR)	1809.	10.
TOTAL COST (\$)	54254.66	214.71
NOV		
ENERGY CONSUMPTION (UNIT/MO)	465642.	3862.
PEAK DEMAND (UNIT/HR)	1460.	23.
TOTAL COST (\$)	45994.72	2278.46
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491445.	8658.
PEAK DEMAND (UNIT/HR)	1461.	28.
TOTAL COST (\$)	47858.02	5108.19

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6767581.	38372.
PEAK DEMAND (UNIT/HR)	1960.	40.
TOTAL COST (\$)	680168.25	22639.20

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/27/1996 16:27:41 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40FPKKWH	744	492626.	35419.79	1461.	1461.	0.00	47942.91
	BONPKDMHTG	252	299363.	0.00	1461.	1461.	12523.13	
FEB	40FPKKWH	672	443469.	31885.46	1461.	1461.	0.00	44408.58
	BONPKDMHTG	228	269721.	0.00	1461.	1461.	12523.13	
MAR	40FPKKWH	744	508232.	36541.90	1461.	1461.	0.00	49061.30
	BONPKDMHTG	276	325960.	0.00	1461.	1461.	12519.40	
APR	40FPKKWH	720	471791.	33921.80	1451.	1451.	0.00	46353.53
	BONPKDMHTG	252	296752.	0.00	1451.	1451.	12431.73	
MAY	40FPKKWH	744	567732.	40819.94	1896.	1896.	0.00	57064.89
	BONPKDMHTG	252	336181.	0.00	1896.	1896.	16244.95	
JUN	40FPKKWH	456	286522.	20600.94	1087.	1087.	0.00	71937.33
	BONPKDMCL	264	409245.	0.00	1959.	1959.	18555.89	
	BONPKKWH	264	409245.	32780.50	1959.	1959.	0.00	
JUL	40FPKKWH	504	325145.	23377.89	1072.	1072.	0.00	72146.01
	BONPKDMCL	240	377259.	0.00	1959.	1959.	18549.63	
	BONPKKWH	240	377259.	30218.49	1959.	1959.	0.00	
AUG	40FPKKWH	468	297670.	21402.45	1095.	1095.	0.00	74684.42
	BONPKDMCL	276	433414.	0.00	1960.	1960.	18565.50	
	BONPKKWH	276	433414.	34716.47	1960.	1960.	0.00	
SEP	40FPKKWH	468	281089.	20210.29	1064.	1064.	0.00	68461.80
	BONPKDMCL	252	377386.	0.00	1903.	1903.	18022.92	
	BONPKKWH	252	377386.	30228.59	1903.	1903.	0.00	
OCT	40FPKKWH	744	538915.	38747.98	1809.	1809.	0.00	54254.66
	BONPKDMHTG	240	309509.	0.00	1809.	1809.	15506.68	
NOV	40FPKKWH	720	465642.	33479.64	1460.	1460.	0.00	45994.72
	BONPKDMHTG	240	283059.	0.00	1460.	1460.	12515.08	

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/27/1996 16:27:41 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ PTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
DEC								
	40PPKKWH	744	491445.	35334.89	1461.	1461.	0.00	
	BONPKDMHTG	252	298950.	0.00	1461.	1461.	12523.13	
								47858.02
TOTAL			6767581.	499687.00			180481.17	680168.25

ECO-10

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/15/1996 1:54: 2 PDL RUN 1
 FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
HW-BOILER	0.147	4.712	2 20 3	4.712	5088						
HERM-CENT-CHLR	0.583	10.090	5 16 3	8.300	1836						
COOLING-TWR	0.364	12.212	5 16 2	5.063	5800						
CTANK-STORAGE	0.466	7.282	8 18 15	73.200	1836						

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN BLEC BTU/HR	COOLING- TWR PUMP BLEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
816 1	8325560.	1646306.	273323.	96264.	0.	6100000.	1922838.	8325560.
816 2	8069658.	1583426.	273323.	96264.	0.	6100000.	1666936.	8069658.
816 3	7946332.	1547015.	273323.	96264.	0.	6100000.	1543610.	7946332.
816 4	7880016.	1530765.	273323.	96264.	0.	6100000.	1477293.	7880016.
816 5	7816084.	1515485.	273323.	96264.	0.	6100000.	1413361.	7816084.
816 6	4439905.	836564.	202587.	96264.	0.	1881376.	2255807.	4439905.
816 7	4023550.	770823.	198421.	96264.	0.	0.	3720827.	4023550.
816 8	0.	0.	0.	0.	4767894.	0.	4465172.	0.
816 9	0.	0.	0.	0.	5323436.	0.	5020713.	0.
81610	0.	0.	0.	0.	5668898.	0.	5366176.	0.
81611	0.	0.	0.	0.	5932697.	0.	5629975.	0.
81612	0.	0.	0.	0.	6121349.	0.	5818626.	0.
81613	0.	0.	0.	0.	6339592.	0.	6036869.	0.
81614	0.	0.	0.	0.	6301569.	0.	5998846.	0.
81615	0.	0.	0.	0.	6079547.	0.	5776824.	0.
81616	0.	0.	0.	0.	5140494.	0.	4837772.	0.
81617	0.	0.	0.	0.	4859908.	0.	4557186.	0.
81618	0.	0.	0.	0.	4245308.	0.	3942585.	0.
81619	0.	0.	0.	0.	3482335.	0.	3179612.	0.
81620	9436227.	1965759.	273323.	96264.	0.	6100000.	3033505.	9436227.
81621	9203944.	1900504.	273323.	96264.	0.	6100000.	2801221.	9203944.
81622	9033544.	1853528.	273323.	96264.	0.	6100000.	2630822.	9033544.
81623	8886283.	1813667.	273323.	96264.	0.	6100000.	2483561.	8886283.
81624	8670088.	1764909.	273323.	96264.	0.	6100000.	2267366.	8670088.
DAILY SUMMARY (AUG 16)								
MN	0.	0.	0.	0.	0.	0.	1413361.	0.
MX	9436227.	1965759.	273323.	96264.	6339592.	6100000.	6036869.	9436227.
SM	93731184.	18728748.	1134238.	1155173.	64263024.	62881376.	87847512.	93731184.
AV	3905466.	780365.	130593.	48132.	2677626.	2620057.	3660313.	3905466.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
817 1	8604961.	1746886.	273323.	96264.	0.	6100000.	2202239.	8604961.
817 2	8334408.	1677937.	273323.	96264.	0.	6100000.	1931685.	8334408.
817 3	8222406.	1640857.	273323.	96264.	0.	6100000.	1819684.	8222406.
817 4	8063390.	1601300.	273323.	96264.	0.	6100000.	1660668.	8063390.
817 5	7997030.	1577434.	273323.	96264.	0.	6100000.	1594308.	7997030.
817 6	6008083.	1135227.	267147.	96264.	0.	3295936.	2409424.	6008083.
817 7	4382274.	835591.	196199.	96264.	0.	0.	4079552.	4382274.
817 8	0.	0.	0.	0.	5224305.	0.	4921582.	0.
817 9	0.	0.	0.	0.	5784334.	0.	5481611.	0.
81710	0.	0.	0.	0.	6005673.	0.	5702950.	0.
81711	0.	0.	0.	0.	6404204.	0.	6101481.	0.
81712	0.	0.	0.	0.	6658178.	0.	6355456.	0.
81713	0.	0.	0.	0.	6764645.	0.	6461923.	0.
81714	0.	0.	0.	0.	6757686.	0.	6454963.	0.
81715	0.	0.	0.	0.	6389315.	0.	6086592.	0.
81716	0.	0.	0.	0.	5430626.	0.	5127904.	0.
81717	0.	0.	0.	0.	5217008.	0.	4914286.	0.
81718	0.	0.	0.	0.	4795852.	0.	4493130.	0.
81719	0.	0.	0.	0.	3885903.	0.	3583180.	0.
81720	9720236.	2067104.	273323.	96264.	0.	6100000.	3317514.	9720236.
81721	9415574.	1978790.	273323.	96264.	0.	6100000.	3012852.	9415574.
81722	9143795.	1893148.	273323.	96264.	0.	6100000.	2741072.	9143795.
81723	8946748.	1830261.	273323.	96264.	0.	6100000.	2544025.	8946748.
81724	8767966.	1782318.	273323.	96264.	0.	6100000.	2365244.	8767966.
DAILY SUMMARY (AUG 17)								
MN	0.	0.	0.	0.	0.	0.	1594308.	0.
MX	9720236.	2067104.	273323.	96264.	6764645.	6100000.	6461923.	9720236.
SM	97606864.	19766854.	3196576.	1155173.	69317720.	64295936.	95363320.	97606864.
AV	4066953.	823619.	133191.	48132.	2888238.	2678997.	3973472.	4066953.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
818 1	8636384.	1747349.	273323.	96264.	0.	6100000.	2233661.	8636384.
818 2	8434174.	1695263.	273323.	96264.	0.	6100000.	2031452.	8434174.
818 3	8337630.	1662596.	273323.	96264.	0.	6100000.	1934908.	8337630.
818 4	8164430.	1619410.	273323.	96264.	0.	6100000.	1761707.	8164430.
818 5	7977811.	1566811.	273323.	96264.	0.	6100000.	1575088.	7977811.
818 6	8872317.	1781146.	273323.	96264.	0.	6100000.	2469595.	8872317.
818 7	6590370.	1256014.	269782.	96264.	0.	2254912.	4032736.	6590370.
818 8	0.	0.	0.	0.	5256840.	0.	4954118.	0.
818 9	0.	0.	0.	0.	5808053.	0.	5505331.	0.
81810	0.	0.	0.	0.	6218376.	0.	5915653.	0.
81811	0.	0.	0.	0.	6601525.	0.	6298802.	0.
81812	0.	0.	0.	0.	6680344.	0.	6377622.	0.
81813	0.	0.	0.	0.	7079866.	0.	6777144.	0.
81814	0.	0.	0.	0.	7281769.	0.	6979047.	0.
81815	0.	0.	0.	0.	6946938.	0.	6644215.	0.
81816	0.	0.	0.	0.	5940299.	0.	5637577.	0.
81817	0.	0.	0.	0.	5673811.	0.	5371089.	0.
81818	0.	0.	0.	0.	5161632.	0.	4858909.	0.
81819	0.	0.	0.	0.	4527616.	0.	4279052.	0.
81820	9870811.	2178282.	273323.	96264.	0.	5567617.	3946313.	9870811.
81821	9896245.	2176541.	273323.	96264.	0.	5863693.	3729829.	9896245.
81822	9895917.	2176567.	273323.	96264.	0.	6078216.	3514978.	9895917.
81823	9715632.	2123515.	273323.	96264.	0.	6100000.	3312910.	9715632.
81824	9510250.	2062833.	273323.	96264.	0.	6100000.	3107528.	9510250.
DAILY SUMMARY (AUG 18)								
MN	0.	0.	0.	0.	0.	0.	1575088.	0.
MX	9896245.	2178282.	273323.	96264.	7281769.	6100000.	6979047.	9896245.
SM	105901968.	22046324.	3276335.	1155173.	73177064.	68564432.	103249272.	105901968.
AV	4412582.	918597.	136514.	48132.	3049044.	2856851.	4302053.	4412582.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
819 1	9253977.	1988647.	273323.	96264.	0.	6100000.	2851255.	9253977.
819 2	9131609.	1940816.	273323.	96264.	0.	6100000.	2728887.	9131609.
819 3	8924754.	1883295.	273323.	96264.	0.	6100000.	2522031.	8924754.
819 4	8851367.	1851191.	273323.	96264.	0.	6100000.	2448645.	8851367.
819 5	8810398.	1839693.	273323.	96264.	0.	6100000.	2407676.	8810398.
819 6	9572536.	2049429.	273323.	96264.	0.	6100000.	3169813.	9572536.
819 7	9967083.	2169064.	273323.	96264.	0.	5071795.	4592566.	9967083.
819 8	0.	0.	0.	0.	5613660.	0.	5310938.	0.
819 9	0.	0.	0.	0.	6122802.	0.	5820079.	0.
81910	0.	0.	0.	0.	6208665.	0.	5905942.	0.
81911	0.	0.	0.	0.	6379204.	0.	6076482.	0.
81912	0.	0.	0.	0.	6527596.	0.	6224874.	0.
81913	0.	0.	0.	0.	6886882.	0.	6584160.	0.
81914	0.	0.	0.	0.	6712683.	0.	6409960.	0.
81915	0.	0.	0.	0.	6310945.	0.	6008223.	0.
81916	0.	0.	0.	0.	5313110.	0.	5010388.	0.
81917	0.	0.	0.	0.	4922273.	0.	4619550.	0.
81918	0.	0.	0.	0.	4453642.	0.	4150920.	0.
81919	0.	0.	0.	0.	3853985.	0.	3551262.	0.
81920	9672672.	2043004.	273323.	96264.	0.	6100000.	3269949.	9672672.
81921	9353499.	1951654.	273323.	96264.	0.	6100000.	2950777.	9353499.
81922	9099245.	1863682.	273323.	96264.	0.	6100000.	2696522.	9099245.
81923	8820708.	1781487.	273323.	96264.	0.	6100000.	2417985.	8820708.
81924	8553722.	1705005.	273323.	96264.	0.	6100000.	2151000.	8553722.
DAILY SUMMARY (AUG 19)								
MN	0.	0.	0.	0.	0.	0.	2151000.	0.
MX	9967083.	2169064.	273323.	96264.	6886882.	6100000.	6584160.	9967083.
SM	110011576.	23066968.	3279876.	1155173.	69305440.	72171792.	99879880.	110011576.
AV	4583816.	961124.	136661.	48132.	2887727.	3007158.	4161662.	4583816.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELRC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
820 1	8096428.	1579772.	273323.	96264.	0.	6100000.	1693705.	8096428.
820 2	7758868.	1484915.	273323.	96264.	0.	6100000.	1356146.	7758868.
820 3	8010178.	1537843.	273323.	96264.	0.	6100000.	1607456.	8010178.
820 4	7221889.	1364512.	273323.	96264.	0.	6100000.	819166.	7221889.
820 5	6973031.	1302047.	273323.	96264.	0.	6100000.	570308.	6973031.
820 6	6775062.	1257684.	273323.	96264.	0.	6100000.	372339.	6775062.
820 7	4922699.	897925.	270555.	96264.	0.	4075616.	544360.	4922699.
820 8	0.	0.	0.	0.	879383.	0.	576661.	0.
820 9	0.	0.	0.	0.	1387981.	0.	1085259.	0.
82010	0.	0.	0.	0.	1558670.	0.	1255947.	0.
82011	0.	0.	0.	0.	1033505.	0.	730782.	0.
82012	0.	0.	0.	0.	1851636.	0.	1548914.	0.
82013	0.	0.	0.	0.	1725235.	0.	1422512.	0.
82014	0.	0.	0.	0.	1687046.	0.	1384324.	0.
82015	0.	0.	0.	0.	1705681.	0.	1402959.	0.
82016	0.	0.	0.	0.	1630507.	0.	1327784.	0.
82017	0.	0.	0.	0.	1463423.	0.	1160700.	0.
82018	0.	0.	0.	0.	493246.	0.	190523.	0.
82019	0.	0.	0.	0.	321140.	0.	18418.	0.
82020	6488580.	1204361.	273323.	96264.	0.	6100000.	85857.	6488580.
82021	6451083.	1195941.	273323.	96264.	0.	6100000.	48360.	6451083.
82022	3914545.	743357.	204145.	96264.	0.	3553600.	58222.	3914545.
82023	348922.	165933.	122609.	96264.	0.	0.	46200.	348922.
82024	302722.	143918.	122012.	96264.	0.	0.	0.	302722.
DAILY SUMMARY (AUG 20)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	8096428.	1579772.	273323.	96264.	1851636.	6100000.	1693705.	8096428.
SM	67264008.	12878207.	2905905.	1155173.	15737450.	56429216.	19306902.	67264008.
AV	2802667.	536592.	121079.	48132.	655727.	2351217.	804454.	2802667.
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	9967083.	2178282.	273323.	96264.	7281769.	6100000.	6979047.	9967083.
SM	474515584.	96487104.	15792929.	5775866.	291800672.	324342752.	405646880.	474515584.
AV	3954297.	804059.	131608.	48132.	2431672.	2702856.	3380391.	3954297.
YEARLY SUMMARY								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	9967083.	2178282.	273323.	96264.	7281769.	6100000.	6979047.	9967083.
SM	474515584.	96487104.	15792929.	5775866.	291800672.	324342752.	405646880.	474515584.
AV	3954297.	804059.	131608.	48132.	2431672.	2702856.	3380391.	3954297.

ON-Peak usage
Ex's - 16

ECO - 10

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE
DEVELOPMENT INC DOE-2.1D 6/13/1996 23: 2:27 PDL RUN
1

READING, PA 19603 4130.05 FT. MONMOUTH -
MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
RP_1 = HOURLY-REPORT

PAGE 1- 1

MMDDHH HERM-CEN HERM-CEN COOLING- COOLING-
T-CHLR T-CHLR TWR TWR
LOAD ELECTRIC FAN PUMP
USE ELEC ELEC
BTU/HR BTU/HR BTU/HR BTU/HR

---- (1) ---- (3) ---- (20) ---- (21)

MONTHLY SUMMARY (MAY)

MN	302722.	142762.	106446.	90465.
MX	6348487.	1259033.	140410.	90465.
SM	392043168.	81851664.	17432774.	11941428.
AV	2970024.	620088.	132066.	90465.

MONTHLY SUMMARY (JUN)

MN	830509.	372988.	116437.	90465.
MX	7271629.	1508870.	140410.	90465.
SM	1194551552.	232326624.	36807304.	23882852.
AV	4524817.	880025.	139422.	90465.

MONTHLY SUMMARY (JUL)

MN	1498392.	430245.	133928.	90465.
MX	7050099.	1439969.	140410.	90465.
SM	1191595264.	228574688.	33685284.	21711684.
AV	4964981.	952395.	140355.	90465.

MONTHLY SUMMARY (AUG)

MN	815628.	371830.	125262.	90465.
MX	7281769.	1503519.	140410.	90465.
SM	1354552192.	262593360.	38698604.	24968436.
AV	4907798.	951425.	140212.	90465.

MONTHLY SUMMARY (SEP)

MN	355402.	167667.	107591.	90465.
MX	6235474.	1244477.	140410.	90465.
SM	863843136.	175084240.	34185092.	22797268.
AV	3427949.	694779.	135655.	90465.

MONTHLY SUMMARY (OCT)

MN	357490.	168654.	107636.	90465.
MX	5014499.	925996.	140410.	90465.
SM	179807184.	47664520.	13535717.	9770260.
AV	1664881.	441338.	125331.	90465.

YEARLY SUMMARY

MN	302722.	142762.	106446.	90465.
MX	7281769.	1508870.	140410.	90465.
SM	5176392704.	1028095104.	174344768.	115071920.
AV	4069491.	808251.	137064.	90465.

ECO-10

off-peak
usage
EXISTING

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE
DEVELOPMENT INC DOE-2.1D 6/13/1996 23: 8:17 PDL RUN
1

READING, PA 19603 4130.05 FT. MONMOUTH -
MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
RP_1 = HOURLY-REPORT

PAGE 1- 1

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR
	---- (1)	---- (3)	---- (20)	---- (21)

MONTHLY SUMMARY (MAY)

MN	302722.	142762.	106446.	90465.
MX	5349443.	1003488.	140410.	90465.
SM	200589872.	67526648.	29018834.	22797268.
AV	795992.	267963.	115154.	90465.

MONTHLY SUMMARY (JUN)

MN	302722.	142762.	106446.	90465.
MX	4387579.	852782.	140410.	90465.
SM	799004608.	201826736.	59724352.	41252200.
AV	1752203.	442603.	130974.	90465.

MONTHLY SUMMARY (JUL)

MN	302722.	142762.	112750.	90465.
MX	4323691.	846269.	140410.	90465.
SM	1085108224.	256997424.	68565728.	45594536.
AV	2152993.	509916.	136043.	90465.

MONTHLY SUMMARY (AUG)

MN	302722.	142762.	107603.	90465.
MX	4581775.	923984.	140410.	90465.
SM	870181440.	218168096.	62414300.	42337780.
AV	1859362.	466171.	133364.	90465.

MONTHLY SUMMARY (SEP)

MN	302722.	142762.	106446.	90465.
MX	3330085.	669362.	140410.	90465.
SM	558887744.	166955264.	58979604.	42337784.
AV	1194205.	356742.	126025.	90465.

MONTHLY SUMMARY (OCT)

MN	302722.	142762.	106446.	90465.
MX	2663557.	566817.	140410.	90465.
SM	112066016.	47640048.	28072178.	22797272.
AV	444706.	189048.	111398.	90465.

YEARLY SUMMARY

MN	302722.	142762.	106446.	90465.
MX	5349443.	1003488.	140410.	90465.
SM	3625837824.	959114240.	306775008.	217116832.
AV	1510766.	399631.	127823.	90465.

ECO-10
CHILLER PROPOSED
OFF-PEAK USAGE

ENTECH ENGINEERING E2DOR - ELITE SOFTWARE DEVELOPMENT INC DOR-2.1D 6/14/1996 22:50:46 PDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
RP_1 = HOURLY-REPORT PAGE 1- 1

MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10089978.	2124376.	273323.	96264.	1955849.	6100000.	5046720.	10089978.
SM	656171456.	136216416.	33623428.	18482770.	41366828.	496733568.	124518680.	656171456.
AV	2603855.	540541.	133426.	73344.	164154.	1971165.	494122.	2603855.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10003975.	2162982.	273323.	96264.	3572792.	6100000.	4619729.	10003975.
SM	1962902784.	399551264.	78906672.	34655204.	228377680.	1394512768.	658726208.	1962902784.
AV	4304612.	876209.	173041.	75998.	500828.	3058142.	1444575.	4304612.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	9859441.	2119222.	273323.	96264.	3674340.	6100000.	4080833.	9859441.
SM	2315854336.	469431840.	87182632.	35810376.	363932832.	1592337536.	934877056.	2315854336.
AV	4594949.	931412.	172981.	71052.	722089.	3159400.	1854915.	4594949.
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	9967083.	2178282.	273323.	96264.	3652677.	6100000.	4592566.	9967083.
SM	2195670528.	449867264.	84663120.	35810376.	191632736.	1514996352.	730578496.	2195670528.
AV	4691604.	961255.	180904.	76518.	409472.	3237172.	1561065.	4691604.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	9191487.	1906205.	273323.	96264.	3143705.	6100000.	3688951.	9191487.
SM	1444583552.	299871680.	69593840.	34655204.	194722208.	1079039488.	418591904.	1444583552.
AV	3086717.	640751.	148705.	74050.	416073.	2305640.	894427.	3086717.
MONTHLY SUMMARY (OCT)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	6916221.	1285772.	273323.	96264.	2663557.	6100000.	2360835.	6916221.
SM	302243744.	69409032.	24934110.	17327596.	45631888.	236072096.	35517524.	302243744.
AV	1199380.	275433.	98945.	68760.	181079.	936794.	140943.	1199380.
YEARLY SUMMARY								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10089978.	2178282.	273323.	96264.	3674340.	6100000.	5046720.	10089978.
SM	8877425664.	1824347392.	378903840.	176741536.	1065664128.	6313691648.	2902809856.	8877425664.
AV	3698927.	760145.	157877.	73642.	444027.	2630705.	1209504.	3698927.

ECO-11

ENTECH ENGINEERING
 READING, PA 19603
 REPORT- PS-H EQUIPMENT USE STATISTICS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
 4130.05 FT. MONMOUTH - MYER CENTER, NJ

DOE-2.1D 6/15/1996 1:24:15 PDL RUN 1
 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 WEATHER FILE- NEWARK, NJ

EQUIPMENT	AVG	MAX	MON		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER		SIZE OPER	
	OPER RATIO	LOAD (MBTU)	DAY	HR	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS	(MBTU)	HRS
HW-BOILER	0.147	4.712	2	20	3	4.712	5088							
HERM-CENT-CHLR	0.398	11.449	5	16	2	8.300	2680							
COOLING-TWR	0.302	13.624	5	16	2	5.063	7087							
CTANK-STORAGE	0.752	3.700	10	14	16	44.000	1836							

Hourly Report
ECO-11

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
817 1	8604961.	1746886.	273323.	96264.	0.	6100000.	2202239.	8604961.
817 2	8334408.	1677937.	273323.	96264.	0.	6100000.	1931685.	8334408.
817 3	3431654.	699418.	190706.	96264.	0.	1309248.	1819684.	3431654.
817 4	1963390.	516442.	129866.	96264.	0.	0.	1660668.	1963390.
817 5	1897030.	506345.	129413.	96264.	0.	0.	1594308.	1897030.
817 6	2712147.	598404.	134175.	96264.	0.	0.	2409424.	2712147.
817 7	4382274.	835591.	196199.	96264.	0.	0.	4079552.	4382274.
817 8	1524305.	489328.	123001.	96264.	3700000.	0.	4921582.	1524305.
817 9	2084334.	552305.	126479.	96264.	3700000.	0.	5481611.	2084334.
81710	2305673.	581841.	129642.	96264.	3700000.	0.	5702950.	2305673.
81711	2704204.	623467.	130526.	96264.	3700000.	0.	6101481.	2704204.
81712	2958178.	665086.	131350.	96264.	3700000.	0.	6355456.	2958178.
81713	3064645.	684241.	132624.	96264.	3700000.	0.	6461923.	3064645.
81714	3057686.	678704.	131905.	96264.	3700000.	0.	6454963.	3057686.
81715	2689315.	633799.	130502.	96264.	3700000.	0.	6086592.	2689315.
81716	1730626.	517093.	124716.	96264.	3700000.	0.	5127904.	1730626.
81717	1517008.	491757.	122012.	96264.	3700000.	0.	4914286.	1517008.
81718	1095852.	454859.	118174.	96264.	3700000.	0.	4493130.	1095852.
81719	612431.	317287.	114473.	96264.	3273472.	0.	3583180.	612431.
81720	9720236.	2050749.	273323.	96264.	0.	6100000.	3317514.	9720236.
81721	9415574.	1978712.	273323.	96264.	0.	6100000.	3012852.	9415574.
81722	9143795.	1893147.	273323.	96264.	0.	6100000.	2741072.	9143795.
81723	8946748.	1830261.	273323.	96264.	0.	6100000.	2544025.	8946748.
81724	8767966.	1782318.	273323.	96264.	0.	6100000.	2365244.	8767966.
DAILY SUMMARY (AUG 17)								
MN	612431.	317287.	114473.	96264.	0.	0.	1594308.	612431.
MX	9720236.	2050749.	273323.	96264.	3700000.	6100000.	6461923.	9720236.
SM	102664432.	22805980.	4209023.	2310346.	43973472.	44009248.	95363320.	102664432.
AV	4277685.	950249.	175376.	96264.	1832228.	1833719.	3973472.	4277685.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
818 1	8636384.	1747349.	273323.	96264.	0.	6100000.	2233661.	8636384.
818 2	8434174.	1695263.	273323.	96264.	0.	6100000.	2031452.	8434174.
818 3	3547694.	712602.	193209.	96264.	0.	1310064.	1934908.	3547694.
818 4	2064430.	524006.	131377.	96264.	0.	0.	1761707.	2064430.
818 5	1877811.	501406.	131123.	96264.	0.	0.	1575088.	1877811.
818 6	2772317.	599129.	135208.	96264.	0.	0.	2469595.	2772317.
818 7	4335458.	823574.	198238.	96264.	0.	0.	4032736.	4335458.
818 8	1556840.	486717.	124188.	96264.	3700000.	0.	4954118.	1556840.
818 9	2108053.	551507.	128301.	96264.	3700000.	0.	5505331.	2108053.
81810	2518376.	600111.	130143.	96264.	3700000.	0.	5915653.	2518376.
81811	2901525.	653210.	131688.	96264.	3700000.	0.	6298802.	2901525.
81812	2980344.	668098.	132830.	96264.	3700000.	0.	6377622.	2980344.
81813	3379866.	719375.	134816.	96264.	3700000.	0.	6777144.	3379866.
81814	3581769.	748129.	134542.	96264.	3700000.	0.	6979047.	3581769.
81815	3246937.	710006.	131129.	96264.	3700000.	0.	6644215.	3246937.
81816	2240300.	591015.	124679.	96264.	3700000.	0.	5637577.	2240300.
81817	1973811.	559647.	122589.	96264.	3700000.	0.	5371089.	1973811.
81818	1461631.	504285.	118057.	96264.	3700000.	0.	4858909.	1461631.
81819	1310031.	488012.	116561.	96264.	3271744.	0.	4279052.	1310031.
81820	10349036.	2085808.	273323.	192529.	0.	6100000.	3946313.	10349036.
81821	10132552.	2042872.	273323.	192529.	0.	6100000.	3729829.	10132552.
81822	9917701.	2001510.	273323.	192529.	0.	6100000.	3514978.	9917701.
81823	9715632.	2127740.	273323.	96264.	0.	6100000.	3312910.	9715632.
81824	9510250.	2062854.	273323.	96264.	0.	6100000.	3107528.	9510250.
DAILY SUMMARY (AUG 18)								
MN	1310031.	486717.	116561.	96264.	0.	0.	1575088.	1310031.
MX	10349036.	2127740.	273323.	192529.	3700000.	6100000.	6979047.	10349036.
SM	110552920.	24204222.	4231939.	2599139.	43971744.	44010064.	103249272.	110552920.
AV	4606372.	1008509.	176331.	108297.	1832156.	1833753.	4302053.	4606372.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR PAN ELEC BTU/HR	COOLING- TWR PUMP ELEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
819 1	9253977.	1988647.	273323.	96264.	0.	6100000.	2851255.	9253977.
819 2	9131609.	1940816.	273323.	96264.	0.	6100000.	2728887.	9131609.
819 3	4136370.	834952.	190861.	96264.	0.	1311616.	2522031.	4136370.
819 4	2751367.	628152.	130092.	96264.	0.	0.	2448645.	2751367.
819 5	2710398.	622943.	129844.	96264.	0.	0.	2407676.	2710398.
819 6	3472536.	726455.	133998.	96264.	0.	0.	3169813.	3472536.
819 7	4895288.	957644.	196895.	96264.	0.	0.	4592566.	4895288.
819 8	1913660.	540565.	125266.	96264.	3700000.	0.	5310938.	1913660.
819 9	2422802.	596014.	128818.	96264.	3700000.	0.	5820079.	2422802.
81910	2508665.	606618.	130125.	96264.	3700000.	0.	5905942.	2508665.
81911	2679204.	624143.	130397.	96264.	3700000.	0.	6076482.	2679204.
81912	2827596.	647588.	131290.	96264.	3700000.	0.	6224874.	2827596.
81913	3186882.	696752.	131973.	96264.	3700000.	0.	6584160.	3186882.
81914	3012683.	681800.	131702.	96264.	3700000.	0.	6409960.	3012683.
81915	2610945.	623708.	130027.	96264.	3700000.	0.	6008223.	2610945.
81916	1613110.	504844.	122850.	96264.	3700000.	0.	5010388.	1613110.
81917	1222273.	466486.	118388.	96264.	3700000.	0.	4619550.	1222273.
81918	753642.	394563.	115478.	96264.	3700000.	0.	4150920.	753642.
81919	581505.	299114.	112712.	96264.	3272480.	0.	3551262.	581505.
81920	9672672.	2049826.	273323.	96264.	0.	6100000.	3269949.	9672672.
81921	9353499.	1951686.	273323.	96264.	0.	6100000.	2950777.	9353499.
81922	9099245.	1863682.	273323.	96264.	0.	6100000.	2696522.	9099245.
81923	8820708.	1781487.	273323.	96264.	0.	6100000.	2417985.	8820708.
81924	8553722.	1705005.	273323.	96264.	0.	6100000.	2151000.	8553722.
DAILY SUMMARY (AUG 19)								
MN	581505.	299114.	112712.	96264.	0.	0.	2151000.	581505.
MX	9672672.	2049826.	273323.	96264.	3700000.	6100000.	6584160.	9672672.
SM	107184344.	23733492.	4203975.	2310346.	43972480.	44011616.	99879880.	107184344.
AV	4466015.	988896.	175166.	96264.	1832187.	1833817.	4161662.	4466015.

	HERM-CEN T-CHLR LOAD BTU/HR	HERM-CEN T-CHLR ELECTRIC USE BTU/HR	COOLING- TWR FAN BLEC BTU/HR	COOLING- TWR PUMP BLEC BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE ENERGY STORED BTU/HR	PLANT SYS COOL LOAD BTU/HR	PLANT TOTAL COOLING BTU/HR
	----(1)	----(3)	----(20)	----(21)	----(1)	----(4)	----(2)	----(9)
820 1	8096428.	1579772.	273323.	96264.	0.	6100000.	1693705.	8096428.
820 2	7758868.	1484915.	273323.	96264.	0.	6100000.	1356146.	7758868.
820 3	3220147.	645250.	200639.	96264.	0.	1309968.	1607456.	3220147.
820 4	1121888.	417839.	129259.	96264.	0.	0.	819166.	1121888.
820 5	873031.	396212.	127424.	96264.	0.	0.	570308.	873031.
820 6	675061.	319185.	125392.	96264.	0.	0.	372339.	675061.
820 7	847083.	394195.	129385.	96264.	0.	0.	544360.	847083.
820 8	0.	0.	0.	0.	879383.	0.	576661.	0.
820 9	0.	0.	0.	0.	1387981.	0.	1085259.	0.
82010	0.	0.	0.	0.	1558670.	0.	1255947.	0.
82011	0.	0.	0.	0.	1033505.	0.	730782.	0.
82012	0.	0.	0.	0.	1851636.	0.	1548914.	0.
82013	0.	0.	0.	0.	1725235.	0.	1422512.	0.
82014	0.	0.	0.	0.	1687046.	0.	1384324.	0.
82015	0.	0.	0.	0.	1705681.	0.	1402959.	0.
82016	0.	0.	0.	0.	1630507.	0.	1327784.	0.
82017	0.	0.	0.	0.	1463423.	0.	1160700.	0.
82018	0.	0.	0.	0.	493246.	0.	190523.	0.
82019	0.	0.	0.	0.	321140.	0.	18418.	0.
82020	6488580.	1204361.	273323.	96264.	0.	6100000.	85857.	6488580.
82021	6451083.	1195941.	273323.	96264.	0.	6100000.	48360.	6451083.
82022	3918737.	743976.	204172.	96264.	0.	3557792.	58222.	3918737.
82023	348922.	165933.	122609.	96264.	0.	0.	46200.	348922.
82024	302722.	143918.	122012.	96264.	0.	0.	0.	302722.
DAILY SUMMARY (AUG 20)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	8096428.	1579772.	273323.	96264.	1851636.	6100000.	1693705.	8096428.
SM	40102552.	8691497.	2254184.	1155173.	15737450.	29267760.	19306902.	40102552.
AV	1670940.	362146.	93924.	48132.	655727.	1219490.	804454.	1670940.
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10349036.	2127740.	273323.	192529.	3700000.	6100000.	6979047.	10349036.
SM	455650208.	100587112.	19114532.	10685350.	191631328.	205307968.	405646880.	455650208.
AV	3797085.	838226.	159288.	89045.	1596928.	1710900.	3380391.	3797085.
YEARLY SUMMARY								
MN	0.	0.	0.	0.	0.	0.	0.	0.
MX	10349036.	2127740.	273323.	192529.	3700000.	6100000.	6979047.	10349036.
SM	455650208.	100587112.	19114532.	10685350.	191631328.	205307968.	405646880.	455650208.
AV	3797085.	838226.	159288.	89045.	1596928.	1710900.	3380391.	3797085.

ECO-11
DU-PEAK

ENTECH ENGINEERING READING, PA 19603 RP_1		EZDOR - ELITE SOFTWARE DEVELOPMENT INC 4130.05 FT. MONMOUTH - MYER CENTER, NJ			DOB-2.1D 6/15/1996 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1		1:24:15 PDL RUN 1	
PAGE 1- 1								
MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR ---- (1)	HERM-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3)	COOLING- TWR FAN ELEC BTU/HR ---- (20)	COOLING- TWR PUMP ELEC BTU/HR ---- (21)	CTANK-ST ORAGE ENERGY RELEASED BTU/HR ---- (1)	CTANK-ST ORAGE ENERGY STORED BTU/HR ---- (4)	PLANT SYS COOL LOAD BTU/HR ---- (2)	PLANT TOTAL COOLING BTU/HR ---- (9)
MONTHLY SUMMARY (MAY)								
MN	0.	0.	0.	0.	302722.	0.	0.	0.
MX	2648487.	616376.	135088.	96264.	3700000.	0.	6045765.	2648487.
SM	52971264.	18375018.	6362738.	5005751.	338857088.	0.	351868960.	52971264.
AV	401297.	139205.	48203.	37922.	2567099.	0.	2665674.	401297.
MONTHLY SUMMARY (JUN)								
MN	0.	0.	0.	0.	1114873.	0.	812151.	0.
MX	3571629.	751448.	134514.	96264.	3700000.	0.	6968906.	3571629.
SM	282317312.	86843608.	24336650.	18771562.	914471296.	0.	1116869888.	282317312.
AV	1069384.	328953.	92184.	71104.	3463907.	0.	4230568.	1069384.
MONTHLY SUMMARY (JUL)								
MN	0.	0.	0.	0.	2356196.	0.	2053473.	0.
MX	3350099.	715213.	135483.	96264.	3700000.	0.	6747377.	3350099.
SM	316338784.	97399040.	27898160.	21274440.	872915456.	0.	1116600832.	316338784.
AV	1318078.	405829.	116242.	88644.	3637148.	0.	4652504.	1318078.
MONTHLY SUMMARY (AUG)								
MN	0.	0.	0.	0.	1092452.	0.	789730.	0.
MX	3581769.	748129.	135909.	96264.	3700000.	0.	6979047.	3581769.
SM	366838848.	109692824.	30728180.	23488520.	985642496.	0.	1268929792.	366838848.
AV	1329126.	397438.	111334.	85103.	3571169.	0.	4597572.	1329126.
MONTHLY SUMMARY (SEP)								
MN	0.	0.	0.	0.	483018.	0.	180296.	0.
MX	2535474.	609965.	134598.	96264.	3700000.	0.	5932752.	2535474.
SM	121760576.	41834348.	14530494.	11455467.	740704128.	0.	786178688.	121760576.
AV	483177.	166009.	57661.	45458.	2939302.	0.	3119757.	483177.
MONTHLY SUMMARY (OCT)								
MN	0.	0.	0.	0.	302722.	0.	0.	0.
MX	1314499.	447063.	132330.	96264.	3700000.	0.	4711777.	1314499.
SM	4782947.	1908980.	864847.	673851.	175286672.	0.	147375584.	4782947.
AV	44287.	17676.	8008.	6239.	1623025.	0.	1364589.	44287.
YEARLY SUMMARY								
MN	0.	0.	0.	0.	302722.	0.	0.	0.
MX	3581769.	751448.	135909.	96264.	3700000.	0.	6979047.	3581769.
SM	1145009792.	356053824.	104721072.	80669584.	4027877376.	0.	4787823616.	1145009792.
AV	900165.	279917.	82328.	63419.	3166570.	0.	3764012.	900165.

ECOR-11
OFF-351K

ENTECH ENGINEERING READING, PA 19603 RP_1 = HOURLY-REPORT		EZDOS - ELITE SOFTWARE DEVELOPMENT INC 4130.05 FT. MONMOUTH - MYER CENTER, NJ				DOE-2.1D 6/15/1996 PTMOACO - SIM MCA H2O ONLY W/OA SCHD1		1:20: 2 PDL RUN 1 PAGE 1- 1	
MMDDHH	HERM-CEN T-CHLR LOAD BTU/HR ---- (1)	HERM-CEN T-CHLR ELECTRIC USE BTU/HR ---- (3)	COOLING- TWR FAN ELEC BTU/HR ---- (20)	COOLING- TWR PUMP ELEC BTU/HR ---- (21)	CTANK-ST ORAGE ENERGY RELEASED BTU/HR ---- (1)	CTANK-ST ORAGE ENERGY STORED BTU/HR ---- (4)	PLANT SYS COOL LOAD BTU/HR ---- (2)	PLANT TOTAL COOLING BTU/HR ---- (9)	
MONTHLY SUMMARY (MAY)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	11449442.	2174647.	273323.	192529.	1955849.	6100000.	5046720.	11449442.	
SM	575690880.	121960280.	31619334.	18675298.	41366828.	416252896.	124518680.	575690880.	
AV	2284488.	483969.	125474.	74108.	164154.	1651797.	494122.	2284488.	
MONTHLY SUMMARY (JUN)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	10062979.	2149821.	273323.	192529.	3572792.	6100000.	4619729.	10062979.	
SM	1704813056.	354296640.	72701424.	34751468.	228377680.	1136423424.	658726208.	1704813056.	
AV	3738625.	776966.	159433.	76209.	500828.	2492157.	1444575.	3738625.	
MONTHLY SUMMARY (JUL)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	9859441.	2116499.	273323.	96264.	3674340.	6100000.	4080833.	9859441.	
SM	1973575936.	411029024.	78867176.	35810376.	363932832.	1250059520.	934877056.	1973575936.	
AV	3915825.	815534.	156482.	71052.	722089.	2480277.	1854915.	3915825.	
MONTHLY SUMMARY (AUG)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	10349036.	2127740.	273323.	192529.	3652677.	6100000.	4592566.	10349036.	
SM	1846620544.	387588928.	76387736.	36099168.	191632736.	1166000640.	730578496.	1846620544.	
AV	3945771.	828182.	163222.	77135.	409472.	2491454.	1561065.	3945771.	
MONTHLY SUMMARY (SEP)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	9191487.	1893722.	273323.	96264.	3143705.	6100000.	3688951.	9191487.	
SM	1309061632.	276886496.	66190880.	34655204.	194722208.	943517568.	418591904.	1309061632.	
AV	2797140.	591638.	141434.	74050.	416073.	2016063.	894427.	2797140.	
MONTHLY SUMMARY (OCT)									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	6916221.	1285772.	273323.	96264.	2663557.	6100000.	2360835.	6916221.	
SM	293388768.	68229096.	24710630.	17327596.	45631888.	227217088.	35517524.	293388768.	
AV	1164241.	270750.	98058.	68760.	181079.	901655.	140943.	1164241.	
YEARLY SUMMARY									
MN	0.	0.	0.	0.	0.	0.	0.	0.	
MX	11449442.	2174647.	273323.	192529.	3674340.	6100000.	5046720.	11449442.	
SM	7703150592.	1619990528.	350477184.	177319120.	1065664128.	5139470848.	2902809856.	7703150592.	
AV	3209646.	674996.	146032.	73883.	444027.	2141446.	1209504.	3209646.	

ECO-12

ENTECH ENGINEERING
READING, PA 19603
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

EZDOE - ELITE SOFTWARE DEVELOPMENT INC
4130.05 FT. MONMOUTH - MYER CENTER, NJ
FTMOACO - SIM MCA H20 ONLY W/OA SCHD1

DOE-2.1D 6/18/1996 20:50: 7 EDL RUN 1

MONTH	ELECTRIC UNIT- 3413.00	FUEL-OIL UNIT- 138690.00
JAN		
ENERGY CONSUMPTION (UNIT/MO)	492409.	9619.
PEAK DEMAND (UNIT/HR)	1462.	37.
TOTAL COST (\$)	50385.11	5675.37
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443235.	7702.
PEAK DEMAND (UNIT/HR)	1462.	41.
TOTAL COST (\$)	46606.48	4543.95
MAR		
ENERGY CONSUMPTION (UNIT/MO)	507936.	5389.
PEAK DEMAND (UNIT/HR)	1460.	24.
TOTAL COST (\$)	51708.00	3179.24
APR		
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667.
PEAK DEMAND (UNIT/HR)	1450.	19.
TOTAL COST (\$)	48771.78	983.57
MAY		
ENERGY CONSUMPTION (UNIT/MO)	569655.	209.
PEAK DEMAND (UNIT/HR)	1922.	4.
TOTAL COST (\$)	60200.39	123.51
JUN		
ENERGY CONSUMPTION (UNIT/MO)	700313.	0.
PEAK DEMAND (UNIT/HR)	1992.	0.
TOTAL COST (\$)	72612.47	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	706960.	0.
PEAK DEMAND (UNIT/HR)	1987.	0.
TOTAL COST (\$)	72770.63	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	736229.	0.
PEAK DEMAND (UNIT/HR)	1989.	0.
TOTAL COST (\$)	75364.64	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	661987.	0.
PEAK DEMAND (UNIT/HR)	1929.	0.
TOTAL COST (\$)	68992.77	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	540086.	323.
PEAK DEMAND (UNIT/HR)	1831.	9.
TOTAL COST (\$)	57068.06	190.39
NOV		
ENERGY CONSUMPTION (UNIT/MO)	465371.	3663.
PEAK DEMAND (UNIT/HR)	1459.	23.
TOTAL COST (\$)	48288.68	2160.91
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491305.	8407.
PEAK DEMAND (UNIT/HR)	1462.	28.
TOTAL COST (\$)	50302.42	4960.15
TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6787130.	36978.
PEAK DEMAND (UNIT/HR)	1992.	41.
TOTAL COST (\$)	703071.44	21817.08

VARIABLE FUELS

EXISTING CONSUMPTION

ENTECH ENGINEERING BZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 20:50: 7 SDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-B SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	40FPKKWH	492	193243.	13894.16	787.	787.	0.00	
	BONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	299165.	23963.10	1462.	1462.	0.00	50385.11
FEB	40FPKKWH	444	173699.	12488.97	787.	787.	0.00	
	BONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	
	BONPKKWH	228	269534.	21589.66	1462.	1462.	0.00	46606.48
MAR	40FPKKWH	468	182063.	13090.36	787.	787.	0.00	
	BONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	
	BONPKKWH	276	325872.	26102.35	1460.	1460.	0.00	51708.00
APR	40FPKKWH	468	174886.	12574.32	787.	787.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	
	BONPKKWH	252	296759.	23770.44	1450.	1450.	0.00	48771.78
MAY	40FPKKWH	492	231908.	16674.15	1058.	1058.	0.00	
	BONPKDMHTG	252	337747.	0.00	1922.	1922.	16472.73	
	BONPKKWH	252	337747.	27053.51	1922.	1922.	0.00	60200.39
JUN	40FPKKWH	456	286599.	20606.45	1092.	1092.	0.00	
	BONPKDMCL	264	413713.	0.00	1992.	1992.	18867.59	
	BONPKKWH	264	413713.	33138.43	1992.	1992.	0.00	72612.47
JUL	40FPKKWH	504	325704.	23418.14	1076.	1076.	0.00	
	BONPKDMCL	240	381256.	0.00	1987.	1987.	18813.90	
	BONPKKWH	240	381256.	30538.59	1987.	1987.	0.00	72770.63
AUG	40FPKKWH	468	297876.	21417.29	1099.	1099.	0.00	
	BONPKDMCL	276	438353.	0.00	1989.	1989.	18835.25	
	BONPKKWH	276	438353.	35112.10	1989.	1989.	0.00	75364.64
SEP	40FPKKWH	468	281033.	20206.26	1069.	1069.	0.00	
	BONPKDMCL	252	380955.	0.00	1929.	1929.	18272.00	
	BONPKKWH	252	380955.	30514.52	1929.	1929.	0.00	68992.77
OCT	40FPKKWH	504	229810.	16523.32	965.	965.	0.00	
	BONPKDMHTG	240	310278.	0.00	1831.	1831.	15691.49	
	BONPKKWH	240	310278.	24853.25	1831.	1831.	0.00	57068.06

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 20:50: 7 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHD1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV								
	40PPKKWH	480	182353.	13111.20	787.	787.	0.00	
	BONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	
	BONPKKWH	240	283017.	22669.67	1459.	1459.	0.00	
								48288.68
DEC								
	40PPKKWH	492	192529.	13842.83	787.	787.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	298773.	23931.73	1462.	1462.	0.00	
								50302.42
TOTAL			6787130.	521084.78			181986.66	703071.44

Volume
speed
date

ECO-12

EMTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 10:22:31 EDL RUN 1
READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHED1
REPORT- ES-D SUMMARY OF FUEL AND UTILITY USE AND COSTS

MONTH	ELECTRIC UNIT- 3413.00	FUEL-OIL UNIT- 138690.00

JAN		
ENERGY CONSUMPTION (UNIT/MO)	492409.	9619.
PEAK DEMAND (UNIT/HR)	1462.	37.
TOTAL COST (\$)	50385.11	5675.37
FEB		
ENERGY CONSUMPTION (UNIT/MO)	443235.	7702.
PEAK DEMAND (UNIT/HR)	1462.	41.
TOTAL COST (\$)	46606.48	4543.95
MAR		
ENERGY CONSUMPTION (UNIT/MO)	507936.	5389.
PEAK DEMAND (UNIT/HR)	1460.	24.
TOTAL COST (\$)	51708.00	3179.24
APR		
ENERGY CONSUMPTION (UNIT/MO)	471645.	1667.
PEAK DEMAND (UNIT/HR)	1450.	19.
TOTAL COST (\$)	48771.78	983.57
MAY		
ENERGY CONSUMPTION (UNIT/MO)	549054.	209.
PEAK DEMAND (UNIT/HR)	1907.	4.
TOTAL COST (\$)	58547.22	123.51
JUN		
ENERGY CONSUMPTION (UNIT/MO)	668670.	0.
PEAK DEMAND (UNIT/HR)	1988.	0.
TOTAL COST (\$)	70228.48	0.00
JUL		
ENERGY CONSUMPTION (UNIT/MO)	676374.	0.
PEAK DEMAND (UNIT/HR)	1983.	0.
TOTAL COST (\$)	70481.09	0.00
AUG		
ENERGY CONSUMPTION (UNIT/MO)	705402.	0.
PEAK DEMAND (UNIT/HR)	1986.	0.
TOTAL COST (\$)	73053.52	0.00
SEP		
ENERGY CONSUMPTION (UNIT/MO)	626595.	0.
PEAK DEMAND (UNIT/HR)	1915.	0.
TOTAL COST (\$)	66227.12	0.00
OCT		
ENERGY CONSUMPTION (UNIT/MO)	518685.	323.
PEAK DEMAND (UNIT/HR)	1801.	9.
TOTAL COST (\$)	55224.77	190.39
NOV		
ENERGY CONSUMPTION (UNIT/MO)	465371.	3663.
PEAK DEMAND (UNIT/HR)	1459.	23.
TOTAL COST (\$)	48288.68	2160.91
DEC		
ENERGY CONSUMPTION (UNIT/MO)	491305.	8407.
PEAK DEMAND (UNIT/HR)	1462.	28.
TOTAL COST (\$)	50302.42	4960.15

TOTAL		
ENERGY CONSUMPTION (UNIT/YR)	6616680.	36978.
PEAK DEMAND (UNIT/HR)	1988.	41.
TOTAL COST (\$)	689824.69	21817.08

VOLUME DURING 1996

PROPOSED CONSUMPTION

ENTECH ENGINEERING EZDOR - ELITE SOFTWARE DEVELOPMENT INC DOB-2.1D 6/18/1996 10:22:31 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H20 ONLY W/OA SCHED1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
JAN	4OPPKWH	492	193243.	13894.16	787.	787.	0.00	
	BONPKDMHTG	252	299165.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	299165.	23963.10	1462.	1462.	0.00	50385.11
FEB	4OPPKWH	444	173699.	12488.97	787.	787.	0.00	
	BONPKDMHTG	228	269534.	0.00	1462.	1462.	12527.85	
	BONPKKWH	228	269534.	21589.66	1462.	1462.	0.00	46606.48
MAR	4OPPKWH	468	182063.	13090.36	787.	787.	0.00	
	BONPKDMHTG	276	325872.	0.00	1460.	1460.	12515.29	
	BONPKKWH	276	325872.	26102.35	1460.	1460.	0.00	51708.00
APR	4OPPKWH	468	174886.	12574.32	787.	787.	0.00	
	BONPKDMHTG	252	296759.	0.00	1450.	1450.	12427.03	
	BONPKKWH	252	296759.	23770.44	1450.	1450.	0.00	48771.78
MAY	4OPPKWH	492	216930.	15597.26	1014.	1014.	0.00	
	BONPKDMHTG	252	332124.	0.00	1907.	1907.	16346.86	
	BONPKKWH	252	332124.	26603.10	1907.	1907.	0.00	58547.22
JUN	4OPPKWH	456	263536.	18948.23	1047.	1047.	0.00	
	BONPKDMCL	264	405134.	0.00	1988.	1988.	18829.02	
	BONPKKWH	264	405134.	32451.24	1988.	1988.	0.00	70228.48
JUL	4OPPKWH	504	302262.	21732.64	1032.	1032.	0.00	
	BONPKDMCL	240	374111.	0.00	1983.	1983.	18782.13	
	BONPKKWH	240	374111.	29966.33	1983.	1983.	0.00	70481.09
AUG	4OPPKWH	468	275198.	19786.74	1054.	1054.	0.00	
	BONPKDMCL	276	430204.	0.00	1986.	1986.	18807.44	
	BONPKKWH	276	430204.	34459.33	1986.	1986.	0.00	73053.52
SEP	4OPPKWH	468	255721.	18386.33	1025.	1025.	0.00	
	BONPKDMCL	252	370874.	0.00	1915.	1915.	18133.75	
	BONPKKWH	252	370874.	29707.04	1915.	1915.	0.00	66227.12
OCT	4OPPKWH	504	213724.	15366.73	900.	900.	0.00	
	BONPKDMHTG	240	304963.	0.00	1801.	1801.	15430.54	
	BONPKKWH	240	304963.	24427.50	1801.	1801.	0.00	55224.77

ENTECH ENGINEERING EZDOE - ELITE SOFTWARE DEVELOPMENT INC DOE-2.1D 6/18/1996 10:22:31 EDL RUN 1
 READING, PA 19603 4130.05 FT. MONMOUTH - MYER CENTER, NJ FTMOACO - SIM MCA H2O ONLY W/OA SCHD1
 REPORT- ES-E SUMMARY OF ELECTRICITY CHARGES

-----CONTINUED-----

MONTH	CHARGE- ASSIGNMENT (U-NAME)	LENGTH (HR/MO)	CONSUMPTION BY C-A (KWH)	ENERGY CHARGE (\$)	MEASURED DEMAND (KW)	BILLING DEMAND (KW)	DEMAND CHARGE (\$)	TOTAL CHARGES (\$)
NOV								
	40PPKKWH	480	182353.	13111.20	787.	787.	0.00	
	BONPKDMHTG	240	283017.	0.00	1459.	1459.	12507.81	
	BONPKKWH	240	283017.	22669.67	1459.	1459.	0.00	48288.68
DEC								
	40PPKKWH	492	192529.	13842.83	787.	787.	0.00	
	BONPKDMHTG	252	298773.	0.00	1462.	1462.	12527.85	
	BONPKKWH	252	298773.	23931.73	1462.	1462.	0.00	50302.42
-----			-----	-----			-----	-----
TOTAL			6616680.	508461.22			181363.42	689824.69

Attachment 8.13

Scope of Study

Entech Engineering, Inc.

Consulting Engineers

Principals

Daniel J. Castellani, PE

Thomas M. McManon, PE

William M. McManon Jr., PE

ENTECH

September 27, 1995

Entech #4130.05

Director of Public Works
ATTN: SELF-PW-E (Mr. Dooney)
Building 167 Riverside Avenue
Fort Monmouth, New Jersey 07703-5108

Re: Indefinite Delivery-Type Contract No. DACA01-94-D-0037
Limited Energy Study, Myer Center, Ft. Monmouth, N.J.

Dear Mr. Dooney:

As requested at our meeting on August 8, 1995, we are furnishing additional scope definitions for the Myer Center energy study. During our discussions you requested that the energy study not address just the steam system but also other major HVAC systems in the building. This concern was further substantiated by the project currently out for bidding to provide new hot water boilers to feed the two-pipe fan coil system. This project greatly reduces the need for steam to just a few users. In summary, Ft. Monmouth is already taking steps to replace the major steam load in Building 2700 and thus leaves limited options for additional energy savings. Future energy and conservation may, therefore, be more readily achievable via modifications/upgrades to other major HVAC systems.

In order to better accommodate your needs, we offer the following preliminary list of Energy Conservation Opportunities (ECOs) which could be considered and of which include other major HVAC systems serving Building 2700. We believe these ECOs would not only met your request, but also be possible within the current authorized contract fee. Please review the following list and forward your comments as soon as possible so that Entech may proceed without any schedule modifications.

ECO List

- Steam to Hot Water Heating Conversion
- Decentralize Steam Distribution System
- Direct Fired Domestic Hot Water Generator
- Decentralize Domestic Hot Water Distribution System
- Convert Steam Source HVAC Equipment to Hot Water



4 South Fourth Street
P.O. Box 32
Reading
Pennsylvania 19603

Office 610.373.5667

Fax 610.373.7537

Director of Public Works
ATTN: SELF-PW-E (Mr. Dooney)
September 22, 1995
Page -2-

- Occupied/Unoccupied Cycle Controls for HVAC Systems
- Cooling Tower Optimization
- Thermal Storage for Chilled Water System
- Efficient Chillers
- Convert Chilled Water System to Variable Flow Primary/Secondary System
- Automated Outside Air Reset Control for Hot Water Distribution Temperature Control
- Replace Domestic Hot Water Recirculation Pumps

I have discussed this change with Mr. James Kendall in Norfolk and he agrees with the revision to the project scope. A copy of our telephone conversation is attached for your records.

Should you have any questions or wish to discuss the preceding information, please do not hesitate to call. In addition, please find, attached, a project schedule for review and comment.

Sincerely,



Edward L. Caulkins, P.E.
Project Manager

cc: Mr. James Kendall
Mr. Charles Konig
Mr. Battaglia
Mr. Kapur
Mr. William McMahon

ENTECH ENGINEERING INC.
TELEPHONE AND CONFERENCE MEMORANDUM

DATE: 9-20-95

BY: Ed Caulkins

PROJECT NO.: 4130.05

PERSON(S): Jim Kendall

TELEPHONE NO: 804-441-7403

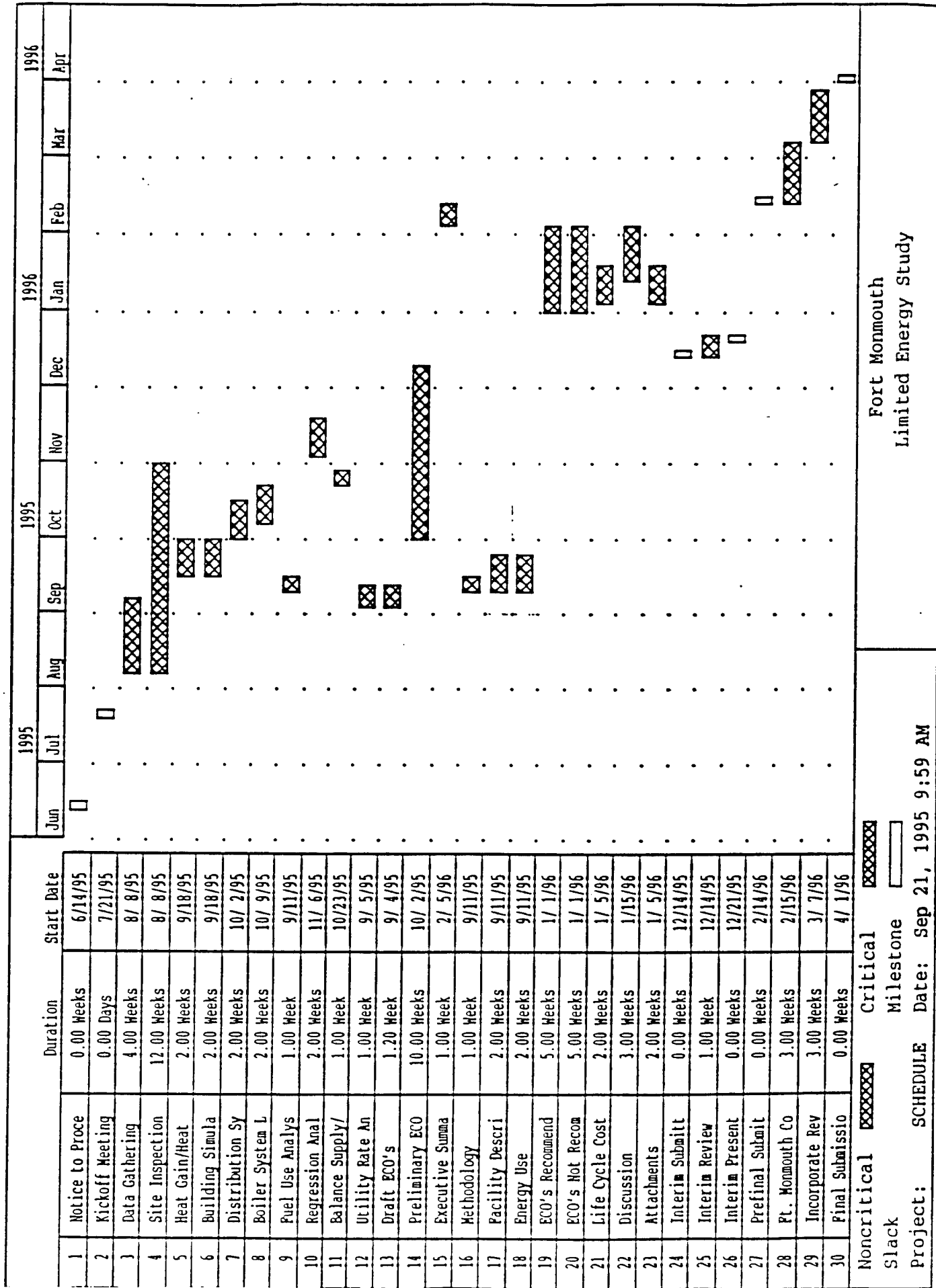
REPRESENTING: Norfolk District

PHONE CODE: 036

SUBJECT: Scope of Study

NOTES: Discussed Kevin Dooney's request that Entech not focus totally on steam plant but cover other HVAC systems as well. The ~~steam~~ issue should not be removed from the study but should be reduced in effort & comprehensiveness to accommodate other HVAC systems which might offer significant energy savings.

Jim stated that as long as steam is not totally eliminated from the project scope, the revised focus is not a problem. There is no modification to the contract scope document required. Entech should forward a copy of the letter re: this change to Jim and Mr. Battaglia. Acceptance of this letter by Kevin Dooney is justification for modifications.



Entech Engineering, Inc.

Consulting Engineers

Reading • Philadelphia • Lehigh Valley

Principals:

Daniel J. Castellani, PE

Thomas M. McManon, PE

William M. McManon Jr., PE

ENTECH

FAX TRANSMITTAL

DATE: 10.2.95 TIME: _____

ENTECH PROJECT #/NAME: _____

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: MR KEVIN DOONEY

FIRM: FT MONMOUTH

FAX #: 908-532-2367 PHONE CODE: 036

FROM: ED CAULKINS

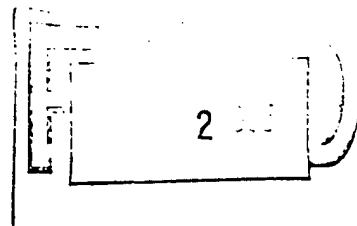
REMARKS: KEVIN,

PLEASE CALL ME AFTER YOU
HAVE A CHANCE TO REVIEW

Thanks
Ed

Original Sent Via:

- ☐ U.S. Mail
- ☐ Overnight Delivery Service
- ☒ FAX Only, Originals Not Sent



WE ARE TRANSMITTING 5 PAGE(S) (INCLUDING COVER PAGE)

If you do not receive all the pages, please call (610) 373-6667.



4 South Fourth Street
P.O. Box 32
Reading
Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

Entech Engineering, Inc.

Consulting Engineers

Reading • Pottsville • Lehigh Valley

Principals:

Daniel J. Castellani, PE

Thomas M. McMahon, PE

William M. McMahon Jr., PE

ENTECH

August 25, 1995

Entech #4130.05

Mr. Jim Kendall
Norfolk District
Attn: CENAO-EN-DE, Jim Kendall
803 Front Street
Norfolk, VA 23510

Re: Ft. Monmouth - DACA01-94-D-0037

Dear Jim:

I received a fax from Mr. Kapur of HQ, Forces Command, indicating that Ft. Monmouth is not a Forscom Installation. This fax was in the form of the Entech Meeting Minutes cover sheet with the previous note. I interpret this to mean that Mr. Kapur has no responsibility regarding this project and does not require copies of further communications. The contract documents list Mr. Kapur, therefore I am forwarding this to you for your input. Should we remove Mr. Kapur from the correspondence list or add someone else in his place? Please let me know what you would like us to do.

Sincerely,



Edward L. Caulkins, P.E.

Project Manager

cc: Bill McMahon - Entech



4 South Fourth Street
P.O. Box 32
Reading
Pennsylvania 19603

Office 610.373.6667

Fax 610.373.7537

CENAO-EN-DE

April 1995

GENERAL SCOPE OF WORK
FOR A
LIMITED ENERGY STUDY

Performed as part of the
ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP)

SCOPE OF WORK
FOR A
LIMITED ENERGY STUDY

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ANNEXES

- A - DETAILED SCOPE OF WORK
- B - EXECUTIVE SUMMARY GUIDELINE
- C - REQUIRED DD FORM 1391 DATA

1. BRIEF DESCRIPTION OF WORK: The Architect-Engineer (AE) shall:

1.1 Review the previously completed Energy Engineering Analysis Program (EEAP) study which applies to the specific building, system, or energy conservation opportunity (ECO) covered by this study.

1.2 Perform a limited site survey of specific buildings or areas to collect all data required to evaluate the specific ECOs included in this study.

1.3 Reevaluate the specific project or ECO from the previous study to determine its economic feasibility based on revised criteria, current site conditions and technical applicability.

1.4 Evaluate specific ECOs to determine their energy savings potential and economic feasibility.

1.5 Provide project documentation for recommended ECOs as detailed herein.

1.6 Prepare a comprehensive report to document all work performed, the results and all recommendations.

2. GENERAL

2.1 This study is limited to the evaluation of the specific buildings, systems, or ECOs listed in Annex A, DETAILED SCOPE OF WORK.

2.2 The information and analysis outlined herein are considered to be minimum requirements for adequate performance of this study.

2.3 For the buildings, systems or ECOs listed in Annex A, all methods of energy conservation which are reasonable and practical shall be considered, including improvements of operational methods and procedures as well as the physical facilities. All energy conservation opportunities which produce energy or dollar savings shall be documented in this report. Any energy conservation opportunity considered not feasible shall also be documented in the report with reasons for elimination.

2.4 The study shall consider the use of all energy sources applicable to each building, system, or ECO.

2.5 The "Energy Conservation Investment Program (ECIP) Guidance", described in letter from DAIM-FDF-U, dated 10 Jan 1994 (including current updates) establishes criteria for ECIP projects and shall be used for performing the economic analyses of all ECOs and projects. The program, Life Cycle Cost In Design (LCCID), has been developed for performing life cycle cost calculations in accordance with ECIP guidelines and is referenced in the ECIP Guidance. If any program other than LCCID is proposed for life cycle cost analysis, it must use the mode of calculation specified in the ECIP Guidance. The output must be in the format of the ECIP LCCA summary sheet, and it must be submitted for approval to the Contracting Officer.

2.6 Computer modeling will be used to determine the energy savings of ECOs which would replace or significantly change an existing heating, ventilating, and air conditioning (HVAC) system. The requirement to use computer modeling applies only to heated and air conditioned or air conditioned only buildings which exceed 8,000 square feet or heated-only buildings in excess of 20,000 square feet. Modeling will be done using a professionally recognized and proven computer program or programs that integrate architectural features with air conditioning, heating, lighting and other energy producing or consuming systems. These programs will be capable of simulating the features, systems, and thermal loads of the building under study. The program

will use established weather data files and may perform calculations on a true hour-by-hour basis or may condense the weather files and the number of calculations into several "typical" days per month. The Detailed Scope of Work, Annex A, will list programs that are acceptable to the Contracting Officer. If the AE desires to use a different program, it must be submitted for approval with a sample run, an explanation of all input and output data, and a summary of program methodology and energy evaluation capabilities.

2.7 Energy conservation opportunities determined to be technically and economically feasible shall be developed into projects acceptable to installation personnel. This may involve combining similar ECOs into larger packages which will qualify for ECIP or FEMP funding, and determining in coordination with installation personnel the appropriate packaging and implementation approach for all feasible ECOs.

2.7.1 Projects which qualify for ECIP funding shall be identified, separately listed, and prioritized by the Savings to Investment Ratio (SIR).

2.7.2 All feasible non-ECIP projects shall be ranked in order of highest to lowest SIR.

2.7.3 At some installations Energy Conservation and Management (ECAM) funding will be used instead of ECIP funding. The criteria for each program is the same. The Director of Public Works will indicate which program is used at this installation. This Scope of Work mentions only ECIP, however, ECAM is also meant.

2.8 Metric Reporting Requirements: In this study, the analyses of the ECOs may be performed using English or Metric units as long as they are consistent throughout the report. The final results of energy savings for individual recommended projects and for the overall study will be reported in units of MegaBTU per year and in MegaWatts per year. Paragraph 7.6.2 details requirements for the contents of the final submittal.

3. PROJECT MANAGEMENT

3.1 Project Managers. The AE shall designate a project manager to serve as a point of contact and liaison for work required under this contract. Upon award of this contract, the individual shall be immediately designated in writing. The AE's designated project manager shall be approved by the Contracting Officer prior to commencement of work. This designated individual shall be responsible for coordination of work required under this contract. The Contracting Officer will designate a project manager to serve as the Government's point of contact and liaison for all work required under this contract. This individual will be the Government's representative.

3.2 Installation Assistance. The Commanding Officer or authorized representative at the installation will designate an individual to assist the AE in obtaining information and establishing contacts necessary to accomplish the work required under this contract. This individual will be the installation representative.

3.3 Public Disclosures. The AE shall make no public announcements or disclosures relative to information contained or developed in this contract, except as authorized by the Contracting Officer.

3.4 Meetings. Meetings will be scheduled whenever requested by the AE or the Contracting Officer for the resolution of questions or problems encountered in the performance of the work. The AE's project manager and the Government's representative shall be required to attend and participate in all meetings pertinent to the work required under this contract as directed by the

Contracting Officer. These meetings, if necessary, will be in addition to the presentation and review conferences.

3.5 Site Visits, Inspections, and Investigations. The AE shall visit and inspect/investigate the site of the project as necessary and required during the preparation and accomplishment of the work.

3.6 Records

3.6.1 The AE shall provide a record of all significant conferences, meetings, discussions, verbal directions, telephone conversations, etc., with Government representative(s) relative to this contract in which the AE and/or designated representative(s) thereof participated. These records shall be dated and shall identify the contract number, and modification number if applicable, participating personnel, subject discussed and conclusions reached. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the records.

3.6.2 The AE shall provide a record of requests for and/or receipt of Government furnished material, data, documents, information, etc., which if not furnished in a timely manner, would significantly impair the normal progression of the work under this contract. The records shall be dated and shall identify the contract number and modification number, if applicable. The AE shall forward to the Contracting Officer within ten calendar days, a reproducible copy of the record of request or receipt of material.

3.7 Interviews. The AE and the Government's representative shall conduct entry and exit interviews with the Director of Public Works before starting work at the installation and after completion of the field work. The Government's representative shall schedule the interviews at least one week in advance.

3.7.1 Entry. The entry interview shall describe the intended procedures for the survey and shall be conducted prior to commencing work at the facility. As a minimum, the interview shall cover the following points:

- a. Schedules.
- b. Names of energy analysts who will be conducting the site survey.
- c. Proposed working hours.
- d. Support requirements from the Director of Public Works.

3.7.2 Exit. The exit interview shall be held when the field work is essentially complete; it shall briefly describe the items surveyed and probable areas of energy conservation. The interview shall also solicit input and advice from the Director of Public Works.

4. SERVICES AND MATERIALS. All services, materials (except those specifically enumerated to be furnished by the Government), labor, supervision, and travel necessary to perform the work and render the data required under this contract are included in the lump sum price of the contract.

5. PROJECT DOCUMENTATION. All energy conservation opportunities which the AE has considered shall be included in one of the following categories and presented in the report as such:

5.1 ECIP Projects. To qualify as an ECIP project, an ECO, or several ECOs which have been combined, must have a construction cost estimate greater than \$300,000, a Savings to Investment Ratio (SIR) greater than 1.25 and a simple payback period of less than ten years. The overall project and each discrete part of the project shall have an SIR greater than 1.25. All projects meeting the above criteria shall be arranged as specified in paragraph 2.7.1 and shall be provided with programming documentation. Programming documentation shall consist of a DD Form 1391 and life cycle cost analysis (LCCA) summary sheet(s) (with necessary backup data to verify the numbers presented). A life cycle cost analysis summary sheet shall be developed for each ECO and for the overall project when more than one ECO are combined. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs.

5.2 Non-ECIP Projects. Projects which do not meet ECIP criteria with regard to cost estimate, but which have an SIR greater than 1.25 shall be documented. Projects or ECOs in this category shall be arranged as specified in paragraph 2.7.2 and shall be provided with the following documentation: the life cycle cost analysis (LCCA) summary sheet completely filled out, a description of the work to be accomplished, backup data for the LCCA (energy savings calculations and cost estimate), and the simple payback period. The energy savings for projects consisting of multiple ECOs must take into account the synergistic effects of the individual ECOs. In addition these projects shall have the necessary documentation prepared, as required by the Government's representative, for one of the following categories:

a. Federal Energy Management Program (FEMP) Projects. A FEMP (or O&M Energy) project is one that results in needed maintenance or repair to an existing facility, or replaces a failed or failing existing facility, and also results in energy savings. The criteria are similar to the criteria for ECIP projects, i.e., $SIR \geq 1.25$, and simple payback period of less than ten years. Projects with a construction cost estimate up to \$1,000,000 shall be documented as outlined in par 5.2 above; projects over \$1,000,000 shall be documented on 1391s. In the FEMP program, a system may be defined as "failed or failing" if it is inefficient or technically obsolete. However, if this strategy is used to justify a proposed project, the equipment to be replaced must have been in use for at least three years.

b. Low Cost/No Cost Projects. These are projects which the Director of Public Works (DPW) can perform using his resources. Documentation shall be as required by the DPW.

5.3 Nonfeasible ECOs. All ECOs which the AE has considered but which are not feasible, shall be documented in the report with reasons and justifications showing why they were rejected.

6. DETAILED SCOPE OF WORK. The Detailed Scope of Work is contained in Annex A.

7. WORK TO BE ACCOMPLISHED.

7.1 Review Previous Studies. Review the previous EEAP study which applies to the specific building, system, or ECO covered by this study. This review should acquaint the AE with the work that has been performed previously. Much of the information the AE may need to develop the ECOs in this study may be contained in the previous study.

7.2 Perform a Limited Site Survey. The AE shall obtain all necessary data to evaluate the ECOs or projects by conducting a site survey. However, the AE is encouraged to use any data that may have been documented in a previous study. The AE shall document his site survey on forms developed for the survey, or on standard forms, and submit these completed forms as part of the report. All test and/or measurement equipment shall be properly calibrated prior to its use.

7.3 Reevaluate Selected Projects. The AE shall reevaluate the projects and ECOs listed in Annex A. These projects and ECOs were previously identified but have not been accomplished or have been only partially accomplished. If the project or ECO is acceptable as is, that is, there are no changes to the basic project or ECO, the energy savings shown in the previous project may be accepted as accurate but the energy cost and construction cost estimates shall be updated based on the most current data available. With the above information the project shall then be analyzed based on current ECIP criteria. If the project or ECO is basically acceptable but some of the buildings in the original project have been deleted or new buildings can be added, the necessary changes shall be made to the energy savings, the energy costs and construction costs shall be updated, and the revised project or ECO shall then be analyzed using current ECIP guidance. If the original project or ECO has had numerous changes made to it so that all of the numbers are suspected of being inaccurate, but the project or ECO is still considered feasible, the AE shall develop the project from the beginning and analyze it with the current ECIP guidance. These projects shall be separately listed in the report.

7.4 Evaluate Selected ECOs. The AE shall analyze the ECOs listed in Annex A. These ECOs shall be analyzed in detail to determine their feasibility. Savings to Investment Ratios (SIRs) shall be determined using current ECIP guidance. The AE shall provide all data and calculations needed to support the recommended ECO. All assumptions and engineering equations shall be clearly stated. Calculations shall be prepared showing how all numbers in the ECO were figured. Calculations shall be an orderly step-by-step progression from the first assumption to the final number. Descriptions of the products, manufacturers catalog cuts, pertinent drawings and sketches shall also be included. A life cycle cost analysis summary sheet shall be prepared for each ECO and included as part of the supporting data.

7.5 Combine ECOs Into Recommended Projects. During the Interim Review Conference, as outlined in paragraph [7.6.1], the AE will be advised of the DPW's preferred packaging of recommended ECOs into projects for implementation. Some projects may be a combination of several ECOs, and others may contain only one. These projects will be evaluated and arranged as outlined in paragraphs 5.1, 5.2, and 5.3. Energy savings calculations shall take into account the synergistic effects of multiple ECOs within a project and the effects of one project upon another. The results of this effort will be reported in the Final Submittal per par [7.6.2].

7.6 Submittals, Presentations and Reviews. The work accomplished shall be fully documented by a comprehensive report. The report shall have a table of contents and shall be indexed. Tabs and dividers shall clearly and distinctly divide sections, subsections, and appendices. All pages shall be numbered. Names of the persons primarily responsible for the project shall be included. The AE shall give a formal presentation of the interim submittal to installation, command, and other Government personnel. Slides or view graphs showing the results of the study to date shall be used during the presentation. During the presentation, the personnel in attendance shall be given ample opportunity to ask questions and discuss any changes deemed necessary to the study. A review conference will be conducted the same day, following the presentation. Each comment presented at the review conference will be discussed and resolved or action items assigned. It is anticipated that the presentation and review conference will require approximately one working day. The presentation and review conference will be at the installation on the date agreeable to the Director of Public Works, the AE and the Government's representative. The Contracting Officer may require a resubmittal of any document(s), if such document(s) are not approved because they are determined by the Contracting Officer to be inadequate for the intended purpose.

7.6.1 Interim Submittal. An interim report shall be submitted for review after the field survey has been completed and an analysis has been performed on all of the ECOs. The report shall indicate the work which has been accomplished to date, illustrate the methods and justifications of the approaches taken and contain a plan of the work remaining to complete the study.

Calculations showing energy and dollar savings, SIR, and simple payback period of all the ECOs shall be included. The results of the ECO analyses shall be summarized by lists as follows:

a. All ECOs eliminated from consideration shall be grouped into one listing with reasons for their elimination as discussed in par 5.3.

b. All ECOs which were analyzed shall be grouped into two listings, recommended and non-recommended, each arranged in order of descending SIR. These lists may be subdivided by building or area as appropriate for the study.

The AE shall submit the Scope of Work and any modifications to the Scope of Work as an appendix to the report. A narrative summary describing the work and results to date shall be a part of this submittal. At the Interim Submittal and Review Conference, the Government's and AE's representatives shall coordinate with the Director of Public Works to provide the AE with direction for packaging or combining ECOs for programming purposes and also indicate the fiscal year for which the programming or implementation documentation shall be prepared. The survey forms completed during this audit shall be submitted with this report. The survey forms only may be submitted in final form with this submittal. They should be clearly marked at the time of submission that they are to be retained. They shall be bound in a standard three-ring binder which will allow repeated disassembly and reassembly of the material contained within.

7.6.2 Final Submittal. The AE shall prepare and submit the final report when all sections of the report are 100% complete and all comments from the interim submittal have been resolved. The AE shall submit the Scope of Work for the study and any modifications to the Scope of Work as an appendix to the submittal. The report shall contain a narrative summary of conclusions and recommendations, together with all raw and supporting data, methods used, and sources of information. The report shall integrate all aspects of the study. The recommended projects, as determined in accordance with paragraph 5, shall be presented in order of priority by SIR. The lists of ECOs specified in paragraph [7.6.1] shall also be included for continuity. The final report and all appendices shall be bound in standard three-ring binders which will allow repeated disassembly and reassembly. The final report shall be arranged to include:

a. An Executive Summary to give a brief overview of what was accomplished and the results of this study using graphs, tables and charts as much as possible (See Annex B for minimum requirements).

b. The narrative report describing the problem to be studied, the approach to be used, and the results of this study.

c. Documentation for the recommended projects (includes LCCA Summary Sheets).

d. Appendices to include as a minimum:

- 1) Energy cost development and backup data
- 2) Detailed calculations
- 3) Cost estimates
- 4) Computer printouts (where applicable)
- 5) Scope of Work

ANNEX A

DETAILED SCOPE OF WORK

1. LOCATION

A. General description. The Architect Engineer (AE) shall furnish all services, materials, supplies, labor, equipment, investigations, studies, and travel as required in connection with the feasibility study for the below identified project in accordance with the contract and all furnished instructions:

INSTALLATION

DESCRIPTION

Fort Monmouth, NJ

Limited Energy Study (Bldg 2700)

2. AUTHORIZATION (Not Required)

3. STUDY INSTRUCTIONS

If the Design Manuals, Guide Specifications, and/or Project Engineering Instructions do not cover a specific condition in question, the AE shall contact the Contracting Officer before proceeding. If there is a conflict in Engineering Instructions or other reference data, such questions or conflicts should be brought to the attention of the Contracting Officer before proceeding. X

4. INSTALLATION REPRESENTATIVE

The installation representative for this contract will be Mr. Kevin Dooney, Director of Public Works.

5. COMPLETION SCHEDULE

The following schedule shall be used as a guide in approving payments on this contract. The interim report for shall be due not later than 180 days after Notice to Proceed. The prefinal report shall be due not later than 45 days after the interim report review conference. The final report shall be due not later than 30 days after the prefinal review conference.

6. METHOD OF PAYMENT

A. Title I. The AE shall prepare and submit to the US Army Engineer District, Norfolk, partial payment estimates in accordance with the attachment entitled "Instructions for Completion of ENG Form 93". Payment under this contract, for which property or services are provided in a series of partial executions or deliveries, will be made within 30 days after receipt of an invoice which has been properly executed by the AE.

B. Additional Conferences. Payment for furnishing the services of technically qualified representatives to attend additional conferences, when so requested in writing by the Contracting Officer, will be made at a rate per hour for the discipline involved plus travel expenses computed in accordance with Government Joint Travel Regulations in effect at the time travel is performed and actual cost of transportation.

7. The simulation programs acceptable for use in this study are listed below. Any substitutes must be submitted and approved as outlined in the basic scope of work.

A. Building Loads and System Thermodynamics (BLAST)

B. DOE 2.1B

C. Carrier E20 of Hourly Analysis Program (HAP)

D. Trane Air-Conditioning Economics (TRACE)

E. Beacon

8. LIFE CYCLE COSTING IN DESIGN (LCCID)

A computer program titled Life Cycle Costing in Design (LCCID) is available from the BLAST Support Office in Urbana, Illinois for a nominal fee. This computer program can be used for performing the economical calculations for ECIP and non-ECIP ECOS. The AE is encouraged to obtain and use this computer program. The BLAST Supporting Office can be contacted at 1-44 Mechanical Engineering Building, 1206 West Green Street, Urbana, Illinois 61801. The telephone number is (217) 333-3977 or (800) 842-5278.

9. FACILITY SURVEY

The Architect-Engineer (AE) shall conduct a survey of the buildings and building systems listed in accordance with HNDS86-188-ED-ME and as described herein. Each building/system shall be observed while operating. The survey shall include and document the following items:

A. The central steam plant including all boilers, auxiliaries, fuel systems, stack(s), internal steam piping, and physical structures.

B. The steam distribution system from the central steam plant to the outer wall of all buildings served by steam. The system will include piping, insulation, valves, controls, traps, vents, and associated structures. Special interest shall be given to equipment life, condition, and capacity.

C. Condensate return system similar to the steam system.

D. The chilled water system as it relates to reheating.

due to overheating

E. Facilities which consume steam including peak steam demand, overall yearly use, and types of equipment served. This shall be limited to the overall system energy use and not to any particular individual user.

F. Those areas that may be needed for supplemental or auxiliary steam plants.

G. The fuel supply as it relates to the boiler plant operations.

H. The environmental equipment related to the boiler plant operations.

10. AUTOMATED REVIEW MANAGEMENT SYSTEM (ARMS) Not Required

11. GOVERNMENT-FURNISHED DATA

A. AR 415-15 Military Construction, Army (MCA) Program Development.

B. AR 415-20 Project Development and Design Approval.

C. TM 5-800-3 Project Development Brochure.

D. Engineering Instructions (as applicable).

E. Previous studies related to application of Steam at this site (where applicable).

12. SUBMITTAL REQUIREMENTS

COPIES REQUIRED

<u>ORGANIZATION</u>	<u>(Correspondence): Interim: Final and Prefinal Review</u>	<u>Executive Summary, Only</u>
Norfolk District Attn: CENAO-EN-DE, Jim Kendall 803 Front Street Norfolk, VA 23510	5	
Headquarters, Forces Command Attn: FCEN-RDF, Mr. Naresh Kapur Energy Office, Building 200 Ft. McPherson, GA 30330-6000	1	
U.S. Army Engineer District, Mobile Attn: CESAM-EN-DM (Mr. Battaglia) Post Office Box 2288 109 St. Joseph Street Mobile, AL 36602	1	
Commander USAED, North Atlantic ATTN: CENAD-EN-MM (Mr Wong) 90 Church Street New York, NY 10007		1
Commander US Army Corps of Engineers ATTN: CEMP-ET (Mr Gentil) 20 Massachusetts Avenue NW Washington, DC, 20314 1000		1 (Final Only)
Commander US Army Logistics Evaluation Agency ATTN: LOEA-PL (Mr Keath) New Cumberland Army Depot New Cumberland, PA, 17070 5007		1 (Final Only)
Director of Public Works ATTN: SELFM-PW-E (Mr Dooney) Bldg 167 (Riverside Ave.) Fort Monmouth, NJ, 07703 5108	2	2

13. ANALYSIS OF SYSTEMS

The Architect Engineer (AE) will utilize standard methods of engineering calculations to understand current energy consumption in such detail as to permit identification of further improvement options.

HEAT LOSS CALCULATIONS A calculation of each facility's theoretical energy use due to building heat loss and heat gain will be made using energy models derived from ASHRAE standards.

STEAM DISTRIBUTION LOSSES Based upon the known arrangement and condition of the steam lines, a calculation shall be made showing the average rate of distribution losses and the overall costs associated with normal operation.

BOILER SYSTEM LOSSES Together with the boiler efficiency tests provide a calculation that will show total boiler system losses including stack losses, skin losses, partial load losses, blowdown losses and others that may apply.

CONDENSATE SYSTEM LOSSES Review the condensate return records and provide a calculation showing the costs of condensate not returned. Provide areas of loss, estimated loss quantities and costs

REGRESSION ANALYSIS Provide a calculation using historical energy consumption, weather data, occupancy, and other variables for potential mathematical correlation to support other energy calculations.

BALANCE OF ENERGY SUPPLY WITH USERS/LOSSES Provide a calculation by combining all calculations made in this study to match actual steam production with calculated energy use.

UTILITY RATE ANALYSIS Provide a separate calculation for each type of energy conserved-gas, oil, and electric. The incremental cost of fuel shall be used for all energy savings options.

CHECK REGULATORY REQUIREMENTS Provide a check of all regulatory bodies affecting emissions to the air or water discharges. Provide any recommendations made in compliance with such regulatory agencies.

14. METHOD

The Architect Engineer (AE) shall collect information on the existing boiler plant and steam system operations in order to have a reasonable understanding of operations, cost, energy use, problems, limitations, and future need. This shall be accomplished in the following steps.

DATA GATHERING From the start of the study the AE shall collect available data that will assist in energy use evaluations and recommendations. A partial list of data that shall be sought is as follows:

- Energy bills and summaries /
- Schedules
- Steam line drawings /
- Floor plans or building data /
- Site plans
- Maintenance records
- Steam load profiles
- Boiler plant operator logs ✓
- Temperature histories
- Energy management system profile *NONE*

SITE VISITS, INSPECTIONS A team of Engineers shall visit the facility. The inspection will cover areas covered in the study. Operators shall interviewed for operation of individual areas and systems.

Nameplate data will be collected as well as observations of arrangements, physical condition and effectiveness. The following measurements shall be collected:

- Pressure levels —
- Temperatures —
- Electrical loads —
- Steam flow rates —
- Schedules —
- Dimensions —

15. ENERGY CONSERVATION OPPORTUNITY INVESTIGATIONS

The AE shall investigate all reasonable options of saving energy and energy-related costs in the operation of the steam production and distribution systems. The approach used to identify each option is briefly described below.

Existing Conditions. This section describes the nature of the existing operating system, its energy use, costs, advantages and disadvantages. Data is usually transferred to this section from the calculations.

Proposed Idea. This section describes improvement ideas that are different from the existing conditions. They may describe a capital projects, modifications, or O&M procedures. The resulting improvements are described, energy costs, quantities and arrangements are briefly noted. Sufficient conceptual studies will be executed to determine feasibility, generate anticipated operational data and estimating values.

Construction Cost Estimate. A feasibility cost estimate in the format prescribed will be performed. The estimate breakdown will be included in the report showing known quantities and costs. Allowances for indirect costs and contingencies are included.

Annual Savings. The report will show the annual savings in energy, quantities, demand, costs, and BTU's. As the report is written, these savings are merely the difference between existing and proposed.

Discussion. This section of the report describes a number of relevant factors including payback period, impact on labor or non-energy costs, O&M concerns, appearances, comfort, life extension, etc. The intent of this section is to address normal impacts or uncertainties of various improvement ideas.

16. REPORT PREPARATION PHASE

The AE will prepare a Energy Analysis report which will fully document the steps previously described. The report will be prepared as follows.

Executive Summary - Section 1. The outline of the executive section is shown on Appendix B.

Methodology - Section 2. This part of the report describes the approach, sequence, assumptions, calculations methods, computer programs, sample outputs, etc. that were used for the study.

Facility Description - Section 3. The report will briefly discuss the buildings and systems covered by the study. It will show floor plans, layout flow diagrams, facility age and condition, major equipment characteristics by system, hours of operation, and concerns expressed by occupants and managers.

Energy Use and Costs - Section 4. The report will describe individual and combined energy and steam consumption for the past two years. The report will describe rate structures, incremental cost calculations, trends, and analysis of use by source. This section critically establishes baseline use of energy for later improvement possibilities.

ECOs Recommended - Section 5. This section describes in detail each of the Energy Conservation Opportunities (ECOs) that are recommended for adoption and funding. The approach to each ECO write-up has been discussed in the preceding section.

ECOs Not Recommended - Section 6. The report will also show ECOs that were investigated but not recommended for adoption due to economics, conflicts, with other ECOs or concerns of operations.

Discussion - Section 7. This part of the report will cover interesting findings of the study not related to other sections of the report. It may include recommendations for non-energy problems, further studies. O&M procedures, training, etc.

Attachments. As part of the report, there will be enclosures for photos, backup calculations, referenced materials such as rate tariffs, codes, etc.

Applications and Funding Requests. As part of this study, applications for project funding will be made in accordance with Section 5, Project Documentation and directions from local authorized persons. The exact level of funding and funding program (expected to be ECIP), will be at the direction of the facility manager.

Suggested Implementation Schedules. The report will also contain a suggested timetable for implementing various projects or programs. This recommendation will be made in consultation with various facility managers.

Operation and Maintenance Instructions. Where appropriate, the study will recommend the formation of procedures or changes to processes that relate to improved energy usage and costs through Operation and Maintenance.

Meetings. At the start of the project, a series of progress meetings will be summarized in minutes prepared and distributed by the AE. There will be a special meeting at the project start and final report phase.

Correspondence. Keeping Fort Monmouth informed of the progress of the conduct of this study shall be a priority. The information shall be transferred in a number of ways.

Progress reports shall be prepared on a monthly basis to highlight the significant events of the prior month. This shall be especially true for actions completed, problems discovered, schedule changes and ECO developments. The progress reports will accompany monthly billings and will form the basis for progress meetings.

Special letters shall be sent for matters of major importance or where schedule delay is not tolerable. This may be true of O&M findings that offer immediate cost savings.

Telephone calls, in-person visits, copies of correspondence and other communications shall be used to keep the post informed of energy analysis underway.

ANNEX B

EXECUTIVE SUMMARY GUIDELINE

1. Introduction.
2. Building Data (types, number of similar buildings, sizes, etc.)
3. Present Energy Consumption of Buildings or Systems Studied.

- ◆ Total Annual Energy Used.
- ◆ Source Energy Consumption.

Electricity - KWH, Dollars, BTU
Fuel Oil - GALS, Dollars, BTU, MWH
Natural Gas - THERMS, Dollars, BTU, MWH
Propane - GALS, Dollars, BTU, MWH
Other - QTY, Dollars, BTU, MWH

4. Reevaluated Projects Results.
5. Energy Conservation Analysis.

- ◆ ECOs Investigated.
- ◆ ECOs Recommended.
- ◆ ECOs Rejected. (Provide economics or reasons)
- ◆ ECIP Projects Developed. (Provide list)*
- ◆ Non-ECIP Projects Developed. (Provide list)*
- ◆ Operational or Policy Change Recommendations.

* Include the following data from the life cycle cost analysis summary sheet: the cost (construction plus SIOH), the annual energy savings (type and amount), the annual dollar savings, the SIR, the simple payback period and the analysis date.

6. Energy and Cost Savings.

- ◆ Total Potential Energy and Cost Savings.
- ◆ Percentage of Energy Conserved.
- ◆ Energy Use and Cost Before and After the Energy Conservation Opportunities are Implemented.

ANNEX C

REQUIRED DD FORM 1391 DATA

To facilitate ECIP project approval, the following supplemental data shall be provided:

- a. In title block clearly identify projects as "ECIP."
 - b. Complete description of each item of work to be accomplished including quantity, square footage, etc.
 - c. A comprehensive list of buildings, zones, or areas including building numbers, square foot floor, etc.
- (11) Latest MCP Index, essential for projecting costs for project documentation.
- (12) The following items are important and should be provided to the AE to the extent to which they are available:
- (a) As-built drawings of applicable buildings, equipment, or systems
 - (b) Handbooks or SOPs relating to the operation of applicable equipment or systems.
 - (c) Applicable records of energy or fuel usage.
 - (d) Copies of bills for electrical assumptions before and after improvements.
- (4) Include source of expertise and demonstrate savings claimed. Identify any special or critical environmental conditions such as pressure relationships, exhaust or outside air quantities, temperatures, humidity, etc.
- e. Claims for boiler efficiency improvements must identify data to support present properly adjusted boiler operation and future expected efficiency. If full replacement of boilers is indicated, explain rejection of alternatives such as replace burners, nonfunctioning controls, etc. Assessment of the complete existing installation is required to make accurate determinations of required retrofit actions.
 - f. Lighting retrofit projects must identify number and type of fixtures, and wattage of each fixture being deleted and installed. New lighting shall be only of the level to meet current criteria. Lamp changes in existing fixtures is not considered an ECIP type project.
 - g. An ECIP life cycle cost analysis summary sheet as shown in the ECIP Guidance shall be provided for the complete project and for each discrete part included in the project. The SIR is applicable to all segments of the project. Supporting documentation consisting of basic engineering and economic calculations showing how savings were determined shall be included.
 - h. The DD Form 1391 face sheet shall include, for the complete project, the annual dollar and MBTU savings, SIR, simple amortization period and a statement attesting that all buildings and retrofit actions will be in active use throughout the amortization period.
 - i. The calendar year in which the cost was calculated shall be clearly shown on the DD Form 1391.

j. For each temporary building included in a project, separate documentation is required showing (1) a minimum 10-year continuing need, based on the installation's annual real property utilization survey, for active building retention after retrofit, (2) the specific retrofit action applicable and (3) an economic analysis supporting the specific retrofit.

k. NAF funded facilities will not be included in an ECIP project without an accompanying statement certifying that utility costs are not reimbursable.

l. Any requirements required by ECIP guidance dated 10 Jan 1994 and any revisions thereto. Note that nonescalated costs/savings are to be used in the economic analyses.

m. The five digit category number for all ECIP projects except for Family Housing is 80000. The category code number for Family Housing projects is 71100.

FACSIMILE HEADER SHEET

COMMAND/OFFICE	NAME/OFFICE SYMBOL	OFFICE PHONE	FAX
From: USARV Mobile, AL	Tony Battaglia CESAM-EN-DM	(334) 690-2618	(334) 690-2424
To: USAED Norfolk, VA	Jim Kendall CENAO-EN-DE	(804) 441-7703	(804) 441-7831
To: ENTECH Reading, PA	Matt Lloyd	(610) 373-6667	(610) 373-7537

CLASS	PREC	PAGES	DATE-TIME	MO	YR	RELEASER'S SIGNATURE
U	N	2	14 1430	06	95	Anthony W. Battaglia

REMARKS

space below for communications center use only


Gentlemen:

The delivery order for the Limited Energy Study, Myer Center Steam System, Fort Monmouth, NJ, was signed today. A copy of the signed order, Form 1155, is attached. The complete package will follow by mail.

Now the real work starts. Best wishes for a high-quality, energy-saving, on-schedule study! Don't forget to send us copies of each submittal.

Good luck,

Tony B.

ORDER FOR SUPPLIES OR SERVICES (Contractor must submit four copies of invoice)				Form Approved OMB No. 0704-0187 Expires Aug 31, 1992		PAGE 1 OF	
<p>YDW</p> <p>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in item 6.</p>							
1. CONTRACT / PURCH ORDER NO. ACA01-94-D-0037		2. DELIVERY ORDER NO. 0005		3. DATE OF ORDER 14 Jun 95		4. REQUISITION / PURCH REQUEST NO.	
5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO		6. ISSUED BY US ARMY ENGINEER DISTRICT, MOBILE P.O. BOX 2288 MOBILE, ALABAMA 36628-0001		7. ADMINISTERED BY (if other than 6) US ARMY ENGINEER DISTRICT, NORFOLK 803 FRONT STREET NORFOLK, VA 23510-1096		8. DELIVERY FOR <input checked="" type="checkbox"/> DEBT <input type="checkbox"/> OTHER (See Schedule if other)	
9. CONTRACTOR ENTECH ENGINEERING, INC. 500 PENN STREET P.O. BOX 32 READING, PA 19603		10. DELIVER TO FOB POINT BY (Date) SEE APPENDIX "A"		11. MARK IF BUSINESS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		12. DISCOUNT TERMS N/A	
13. NAME AND ADDRESS		14. PAYMENT WILL BE MADE BY FINANCE AND ACCOUNTING OFFICER US ARMY ENGINEER DISTRICT, MOBILE 803 FRONT STREET NORFOLK, VA 23510-1096		15. MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER		16. MAIL INVOICES TO SEE BLOCK 14	
17. TYPE OF ORDER <input checked="" type="checkbox"/> DELIVERY <input type="checkbox"/> PURCHASE		<p>This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.</p> <p>Reference your _____ (within the following on terms specified herein).</p> <p>ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH AND AGREES TO PERFORM THE SAME.</p>					
NAME OF CONTRACTOR		SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED	
<input checked="" type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:							
17. ACCOUNTING AND APPROPRIATION DATA / LOCAL USE 2152050 08-3013 P70000000 S44110 RA5A635D051B400 (E87950221) \$131,393.00 TOTAL							
18. ITEM NO.	19. SCHEDULE OF SUPPLIES / SERVICE	20. QUANTITY ORDERED / ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT		
0001	DELIVERY ORDER FOR EEAP PROGRAM, LIMITED ENERGY STUDY AT FORT MONMOUTH, NEW JERSEY		1 JOB		\$131,393.00		
*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.		24. UNITED STATES OF AMERICA  BY: GENE L. CURTIS			25. TOTAL \$131,393.00		
26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		28. D.O. VOUCHER NO.		29. DIFFERENCE	
DATE _____ SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE _____		30. PAID BY		31. AMOUNT VERIFIED CORRECT FOR		32. CHECK NUMBER	
33. I certify this account is correct and proper for payment DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____		34. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		35. BILL OF LADING NO.		36. S/R VOUCHER NUMBER	
37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED	40. TOTAL CONTAINERS	41. S/R ACCOUNT NUMBER	42. S/R VOUCHER NUMBER		

INTERIM REVIEW COMMENTS

EEAP LIMITED ENERGY STUDY

at

**MYER CENTER
Ft. Monmouth, New Jersey**

prepared by

**ENTECH ENGINEERING, INC.
4 South Fourth Street
Reading, Pennsylvania 19603
610-373-6667
Entech #4130.05**

May 17, 1996

Interim Review Comments and Responses

The following addresses the review comments (CESAM-EN-DM Comments - Battaglia) for the EEAP Limited Energy Study, Myer Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

Comment	Response
1. General: The AE has done a very good job of collecting and presenting data on the mechanical system for this complicated building.	1. General: Thank you for your positive comment. We appreciate the time and effort put forth in reviewing the report.
2. Page 2-5: Correct description for kWh.	2. Page 2-5: Description in abbreviations table for kWh was corrected from kilowatts per hour to kilowatt hour.
3. Page 2-20, Par 2: Twenty years was entered as common criteria for economic life in the LCCAs. This value can vary depending on the type of system being analyzed. For a complete list of economic lives, see the ECIP Guidance.	3. Page 2-20, Par 2: We are aware of the list for economic life in LCCAs. We will incorporate appropriately in individual LCCA's.
4. Page 3-9: Correct typos in first and second paragraphs.	4. Page 3-9: A couple of typographical errors were corrected in paragraphs 1 and 2.
5. Page 3-7 & 3-9: With regard to the new hot water boilers for Building 2706; Please clarify if the base case energy usage and the analyses of the ECOs will assume new boilers in operation or not in operation.	5. Page 3-7 & 3-9: Replacing steam heating with new hot water boilers in the middle of an EEAP study complicates the analysis of the past versus the future. With this study, the existing loads on the MCA water will be separated in the boiler plant related ECO analysis. The new boilers in Building 2706 will be assumed to be in operation supporting the MCA demands. The main ECO for this EEAP Study will focus on the viability of operating a large boiler plant and steam distribution with relatively small loads excluding the MCA demands. The losses and/or overheating of spaces is suspected to be excessive, thereby warranting the investigation of decentralizing this system. Also, decentralization can be accomplished such that the full-time operation and monitoring of the existing system can be reduced to part-time monitoring with the new installations.
6. Page 3-12, Par 2: Delete unnecessary word after "water chiller".	6. Page 3-12, Par 2: The unnecessary word was removed.

Comment	Response
<p>7. Page 3-16, Table 3.4.1.1: Some of the items listed, for example, 9-11, have both cooling equipment compressor data and chilled water data listed. It can't be both. Please clarify.</p>	<p>7. Page 3-16, Table 3.4.1.1: When this list was originally comprised the compressor (hp) and (kW/ton) were omitted for the MCA chilled water loads which are handled by the Central Chiller Plant in Building 2706. Later, portioned values were then added for purposes of identifying the building/floor load totals and kW/ton averages. The MCA values in the "Est. Cooling Load/Compressor" columns shown were darkened to differentiate them from the others. Note: The connected (kW) loads in the electric model (Table 5.6.2.2) reflect that the values in the compressor columns of the listed MCA items in Table 3.4.1.1 and 2 were removed. Horsepower (hp) in the "Cooling Type (Est. Cond. Flow/hp)" columns relate only to the associated pumps and condenser fans excluding the MCA compressor loads.</p>
<p>8. Page 3-16, Table 3.4.1.1: Cooling Equipment Field: Several items list plant chilled water at 55°F. Chilled water is usually supplied at 42-45°F. Should this apply to supply air temperature rather than chilled water temperature?</p>	<p>8. Page 3-16, Table 3.4.1.1: The 55 degree chilled water reference for the MCA two-pipe system is correct. The building maintains this temperature because they want to minimize condensation from the fan coil units. Since the perimeter fan coils and the MCA air handlers serving other areas are on the same piping system the supply temperature will remain in the 50-55°F range. Areas requiring lower humidity control, or more cooling in general have been supplemented with other cooling sources (ie: Item 118 in Table 5.4.1.2 and some "Liebert Units" in other areas). Comfort is probably borderline on design days using the 55 degree water.</p>
<p>9. Page 3-18: Suggest the following additions to the tables on page 3-18: a. Table 3.1.4.3: add columns for Supply & Return Temperature. b. Table 3.1.4.4: add column for equipment served.</p>	<p>9. Page 3-18: a. Columns were added for the supply (55°F) and return (65°F) for the Building 2706 chillers in Table 3.4.1.3. b. The "Building Service" column in Table 3.4.1.4 was changed to "Equipment Served". CT-1 in Building 2706 supports the chiller plant only while the towers on the roof of Building 2700 support a variety of equipment.</p>
<p>10. Page 3-25: Top line: Should the word "coils" be substituted for "unit heater"?</p>	<p>10. Page 3-25: The phrase "unit heaters" was replaced with "coils".</p>

Comment	Response
<p>11. Page 4-8: Regarding unavailability of fuel oil bills for months of June and November: Is it possible that they just did not order oil in June and November because they had enough in the tank for expected needs? Discuss in light of findings on pages 4-16 and 4-17.</p>	<p>11. Page 4-8: The June and November oil bills were considered missing because no other information was available to consider otherwise. Records available to us did not confirm whether they existed or not. If the two months in question are considered to be months when oil was not ordered, then the estimated usage would be about 30% greater than the delivered totals. Fort Monmouth should be able to confirm whether fuel oil was ordered/delivered for June and November of 1994. We believe the report should remain as is unless further information is provided to the contrary.</p>
<p>12. Page 4-14 & 4-15: Here two year's worth of steam production data are shown, with more steam produced in 93-94 then in 94-95; then they are averaged. Averaging is not always the best way to determine the typical year's performance. After all, that is the objective, to predict the typical year's performance. Wouldn't it be better to compare the steam production to the EZDOE output, which is based on a typical year's weather, and make adjustments on that basis? Please discuss.</p>	<p>12. Page 4-14 & 4-15: Entech believes that the two year information for steam production is the best available source for identifying past steam production. The EZDOE output is a check of the heating and cooling loads for Building 2700 only. Cafeteria usage, domestic hot water, Buildings 2704, 2705 and 2715 usage and the system losses, which vary from month to month according to our findings, are beyond the EZDOE focus for this report.</p>
<p>13. Page 4-16, par 4-6: Good work.</p>	<p>13. Page 4-16: Thank you for your comment. This section has since been incorporated into Section 4-3.</p>
<p>14. Page 5-3: Top of page, mentions heating for areas frequently open to outdoors. Suggest evaluating an ECO to serve such areas with direct-fired gas IR heaters.</p>	<p>14. Page 5-3: While the use of direct fired gas IR heaters is an excellent idea, Fort Monmouth personnel have concluded that serving these areas with hot water during the heating season only will be acceptable.</p>
<p>15. Page 5-3, Par 2, Sent 2: Change "supported a majority" to "supported by the majority".</p>	<p>15. Page 5-3, Par 2: Paragraph corrected per comments.</p>

Comment	Response
<p>16. Sec 5, General: I am concerned about the use of multiple models to determine building loads and predict system performance. Except for the development of the U values and the analysis of the smaller buildings, the use of the Degree Day Method seems to have done more to muddy the waters than to verify the loads and performances. Some of the following comments will illustrate these concerns. It is suggested that the time spent on the Degree Day Method for Building 2700 might have been more profitably spend on refining the inputs for the EZDOE model</p>	<p>16. Sec 5, General: We agree that the Degree Day Method has limitations for modeling of loads as compared to EZDOE. The Degree Day Method spreadsheet is a standard format which we have developed from previous work to help verify the validity of other calculations. It does not have the ability to account for internal heat generation loads which offset some building heat loss. It does, however, give us a way to compare the EZDOE results on a gross basis. All ECO evaluations will be based on the Steam Use Model, EZDOE and Electric Model. We have made modifications to the EZDOE simulations to improve the accuracy of the model since the issuance of the Interim Report.</p>
<p>17. Page 5-7: Regarding reheat for the clean rooms: The reheat load is taken from Table 3.4.1.2, presumably from the column labeled "Estimated Heating load, Reheat". How was this load estimated; was it based on construction drawings, or nameplate data? Par 5.2.2 goes on to assume that a certain percent of this load is required year round. I am concerned that an assumption on top of an estimate may result in too much error. Wouldn't it be just as easy and more accurate to model each clean room?</p>	<p>17. Further review of these units suggests that the air supply is about 50,000 cfm and the outdoor air quantity is about 20% or 10,000 cfm. Initial calculations were in error. Psychometric calculations will be included in the Appendix for ECO support data. Detailing each cleanroom would require a thorough design review of information that was not provided to us. We believe our evaluation is a good approximation of the conditions for these spaces. Also, as mentioned EZDOE was not set up in this study for detailed analyses of individual spaces. Block loading of the cleanrooms was consistent with the other system/area evaluations.</p>
<p>18. Page 5-10, Par 5.2.4, Sent 1; Change "food" to "for".</p>	<p>18. Page 5-10: Paragraph corrected per comment.</p>
<p>19. Page 5-13, Par 5.2.6, Sent 1: Change "from" to "by".</p>	<p>19. Page 5-13: Paragraph corrected per comment.</p>
<p>20. Page 5-17: I tried to determine the peak winter day steam demand based on the quantities presented in Section 5.2, and I came up with approximately 10,400 lb/hr. This is considerably less than the 15,000 pph mentioned on page 5-14 or the 17,000 pph mentioned on page 5-20. That leads me to suggest that the methods used in Sec 5.2 result in underestimating the requirements.</p>	<p>20. Page 5-17: The rate of 10,400 lb/hr in Section 5.2 pertains to the connected heating loads for Building 2700 and 2706, whereas the 15,000 lb/hr reference for pipe velocities relates to the plant's steam production peak which includes additional loads for the cafeteria and Building 2704, 2705, and 2718, and of course the system losses. The corrected 16,000 lb/hr reference on page 5-20 pertains to the record peak of the winter of 1994. Both of these values were determined by reviewing the boiler logs in Appendices.(Refer to response to Comment 22.)</p>

Comment		Response	
21.	Page 5-20, Sent 2 below Table 5.3.2: Change "to" to "than".	21.	Page 5-20: Paragraph corrected per comment.
22.	Page 5-20: States that the peak steam demand in January 1994 was over 17,000 pph. Where is that data shown in this report? It is not reported in Table 4.5.1, Facilities Engineering Operating Log, nor in Table 4.5.2, Adjusted Steam Production.	22.	Page 5-20: It is apparent that some boiler logs were inadvertently mixed in with the fuel oil bills. The logs show that the hourly average "peak" for fuel use at 80% efficiency for both January 19 and 20, 1994 was close to 16,000 lb/hr. The values tabulated in Section 4 and modeled in Section 5.2 are average monthly figures. Actual hourly peaks are considered to be higher.
23.	Page 5-24 & 5-29: Color-coded floor plans are excellent.	23.	Page 5-24 & 5-29: Thank you for your comment.
24.	Page 5-30: Cooling Coil Temp shown as 55°F: Looks like this may refer to Leaving Air Temp rather than cooling medium temp. Please clarify. See Comment 8 above.	24.	Page 5-30: The information in question was changed to reflect that the Leaving Air Temperatures for the MCA system and the DX/Misc Cooling systems is 60°F and 55°F respectively.
25.	Page 5-32: Statement at top regarding occupancies: It would not seem too difficult to set up an occupancy schedule for the cafeteria. Data on the cafeteria was reported on Page 3-2.	25.	Page 32: Other than the general classification for the "cleanroom" spaces, the floors were subdivided in EZDOE by generalized system. This block loading method works well for estimating overall monthly or quarterly usage and peak totals. As with the case of the cafeteria and the auditorium the local system peaks are probably underestimated, but for the purposes of the analyses in this report, that detail was not considered important enough to differentiate in the block loads setup.
26.	Page 5-32: The note under Ventilation Rates stated that many areas do not received outdoor air. If people are working in these areas, their health demands that they receive ventilation, even if the cooling load is increased. The report should at the very least make a recommendation for introduction of outside air to meet the requirements of ASHRAE 62-1989.	26.	Page 5-32: As professional engineers, we would have been remiss to not mention the issue of minimum air (or lack of) conditions. Our intent was to comment on that subject in the comments and recommendations portion of Section 7. The introduction of additional outside air to the building will obviously do nothing to save energy. A paragraph was added to page 3-9 that also points out the fact that outside air is missing in many areas.

Comment	Response
27. Page 5-32: Regarding infiltration: Please provide more background or give more explanation for the first statement regarding infiltration rates set for summer and winter.	27. Page 5-32: The baseline infiltration rates were modified in EZDOE to 0.8 ach year round since the building is continuously exhausted. The 0.8 ach rate, suggests an ASHRAE definition for a loose to medium type construction for this building during winter conditions. Summer conditions at this rate are considered high but for this building the exhaust differential governs year round. This section will be modified to clarify this setting.
28. Page 5-33: The very first sentence on this page could also use some additional background or explanation.	28. Page 5-33: The following sentences were added to the infiltration portion of Section 5.4.3. "Many of the exhaust fans on the roof are designed with relatively low static pressure of 1" ± water gauge". The negative conditions existing in the building would suggest that the added static pressure would reduce the capacities of these fans and in some cases the fans probably exhaust very little air.
29. Page 5-33, Sent 2: Change "roof" to "rate".	29. Page 5-33: Paragraph corrected per comment.
30. Page 5-37, Table 5.4.4.1: Should include "Base Case" in the title.	30. Page 5-37, Table 5.4.4.1: Corrected per comment.
31. Page 5-48 & General: The word "usage" is creating some confusion. In some places usage figures are given units of kWh, and in other places units of kW. Please be consistent.	31. Page 5-48: Usage should be kWh, Page 5-48 was corrected to reflect that consistency. The remainder of the report will be reviewed for consistency.
32. Page 6-2, ECO list 1.a. Heating: Mentions "hot water heating system/season". Was this intentional, or is it a typo? Please clarify.	32. Page 6-2: System/season is intentional with the way we are preliminarily presenting the ECO scope. Converting areas utilizing steam available year round to hot water available for a 7 month season maybe unacceptable to some. The use of system/season hopefully highlighted that aspect.
33. Page 6-4, Sec 6.3: Normally all ECOs are supposed to be analyzed by the time the interim report is submitted. Apparently, a different arrangement has been mutually agreed upon by the Norfolk District, For Monmouth, and the AE for this study. Please assure that sufficient time is provided for review and comment on ECO analyses prior to development of project documentation and submission of the final report.	33. Page 6-4: Our intent is to allow for necessary time for review of the ECOs.

Comment	Response
34. Page 6-5: In the Proposal: Change "380 kW/ton" to "380 kW".	34. Page 6-5: Paragraph corrected per comments.
35. Page 6-6 and General: What bases is used for estimating the construction costs, Means, a quote, a combination? Please include the estimate with backup data where appropriate for each ECO analysis.	35. The cost estimates are for the most part based on Means. The estimate for this ECO was inadvertently left out of this submission.

Interim Review Comments and Responses

The following addresses the review comments (SEL-FM-PW-E Comments - Zatorski) for the EEAP Limited Energy Study, Power Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

Comment	Response
1. Sec 6.2 1a) Buildings 2705 & 2704 should be converted as per recommendation.	1. Sec 6.2 1a) Agreed
1b) Building 2700 cleanrooms may go out of business. Don't know at this time, Building 2705 as per recommendation.	1b) Entech shall proceed with the assumption that the cleanrooms will continue to operate as is. Consideration for what might happen in the future is difficult to incorporate into an ECO analysis. Note: If the building steam is removed then a heat source of one type or another will still be required for these parts of the building.
1c) Building 2700 Kitchen equipment. Per discussions with Mr. C. Stone, MWR Mgr. It will cost approximately 18K to replace the steam operated dish washer and steam tables.	1c) Thank you for the input on the kitchen equipment. Further discussion with Mr. C. Stone clarified that the \$18,000 is for both the kitchen equipment and installation costs, and that these appliances will utilize hot water fired locally by natural gas. Miscellaneous costs will be added in the ECO analysis to assure an adequate estimate for this work.
1d) Building 2700 domestic hot water should be converted to gas fired equipment utilizing the existing distribution system.	1d) Agreed
a) Project in progress in Building 2706.	a) The extra boiler mentioned in our submittal related to a unit that would be deemed necessary (by Fort Monmouth personnel) for supplying year round heat and/or reheat for areas outside the scope of the new cleanroom boiler for the base case. We are aware of the project in Building 2706 which supports the MCA system. Further discussion with Fort Monmouth personnel has confirmed that only the cleanroom heating/reheat load will be required during the summer in Building 2700.
b) Don't know how much of an impact will be left after ARL leaves, hold on this.	b) Refer to comment 1b. The use of hot water versus steam for the cleanroom boiler is a variation from the base case for an ECO comparison only.

Comment	Response
c) Not feasible or cost effective. Entirely to much piping construction required to achieve this.	c) We appreciate your insight. The ECO evaluation should confirm your thoughts.
d) Would be governed by cost effectiveness between the operation of electric and gas fired equipment. Costs of the actual equipment are probably the same.	d) The ECO analyses will determine the best method for providing domestic hot water.
2. Sec 6: Don't agree, approximately 50 units will be required and will be maintenance intensive.	2. Sec 6: We appreciate your input on what might be required. The ECO evaluation should confirm your thoughts.
3. Sec 6: If you include FCUs you're talking about 1400 units.	3. Sec 6: Our intention was to address air handing units that are not dictated by space exhaust (outside air) quantities (ie: cleanrooms, etc.) Fan coil units (FCU's) will not use clocks.
4. Sec 6: Will need some kind of study on this.	4. Sec 6: Resolving the exhaust/infiltration problems associated with this building would take an extra study or evaluation beyond the scope of this project to properly discern how changes could be made. Our intent will be to demonstrate ECO findings associated with a reasonable scenario for this building.
5. Sec 6: Not cost effective per page 6-7 of this text.	5. Sec 6: Agreed
6. Sec 6: Not versed to comment.	6. Sec 6: No response required.
7. Sec 6: Not versed to comment.	7. Sec 6: No response required.
8. Sec 6: Will issue IJO for rehab of tower #5.	8. Sec 6: Our intent is to look at changes to the cooling tower (CT-1) for the chiller plant.
9. - 12. Sec 6: Not versed to comment.	9.-12. Sec 6: No response required.

Interim Review Comments and Responses

The following addresses the review comments (Comments - Konig) for the EEAP Limited Energy Study, Myer Center
am & HVAC at Fort Monmouth, NJ along with our responses.

Comment	Response
1. Entech did an excellent job of describing the existing conditions of the Myer Center and it's existing mechanical system.	1. Thank you for your comment.
2. Of the 12 ECOs on Entech's list only ECO #5 was evaluated.	2. Out intent was to supply an example (ECO #5) for review, and to list the ECOs to be evaluated.
3. Entech must evaluate the other 11 ECOs.	3. Our intent is to evaluate all 12 ECOs.
4. Page 3-1, Typos, Eatontown not Eatonville.	4. Page 3-1: Corrected.

**RESPONSES TO
PRE-FINAL REVIEW COMMENTS**

EEAP LIMITED ENERGY STUDY

at

**MYER CENTER
Ft. Monmouth, New Jersey**

prepared by

**ENTECH ENGINEERING, INC.
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February 1997

Pre-final Review Comments and Responses

The following addresses the review comments (DPW - K. Dooney - Mech/General) for the EEAP Limited Energy Study, Myer Center Steam & HVAC at Fort Monmouth, NJ along with our responses.

Comment	Response
1. Pg 1-3, Table 1.4.1; Real Property records for building 2705 indicate that building is 47,592 sf.	1. The square footage for Building 2705 was revised to 47,592.
2. Pg 1-5, para 1.7; 2nd para of 1.7 states identification of opportunities with building 2700 HVAC system was limited. The subsequent sentence provides 2 reasons, however, it is not clear how these reasons especially "the large number of miscellaneous systems" limited Entech's ability on identifying cost effective opportunities. Please explain.	<p>2. The scope of this limited energy study project was clarified in a letter from E. Caulkins of Entech to K. Dooney, Ft. Monmouth dated 9/27/95. The letter addresses the change in scope beyond the steam system study to include possible energy savings opportunities with the remaining major HVAC systems in Building 2700. A preliminary list of ECOs was presented in that letter that became the basis for the final group of ECOs reviewed.</p> <p>Additional clarification was gained with an earlier telephone conversation between J. Kendall, Norfolk District and E. Caulkins at Entech.</p> <p>We believe our report addresses the most practical list of potential energy savings opportunities for Building 2700. The reason for the limited opportunities for this building can be attributed to the types of installations in this building.</p> <p>The only opportunities that may exist beyond the list provided would come from areas supported by small dedicated systems that may or may not be inefficient. Even at that, changes in efficiencies for small systems do not generally pay for new equipment from an energy savings standpoint. The reference to the "large number of miscellaneous equipment" relates to the remaining pieces of cooling equipment not addressed by the ECOs. These individual systems may be in need of equipment changes but the scope of this limited study does not include those evaluations.</p>
3. Pg 1-6, Table 1.7.1; What is the abbreviation "LCCID" mean?	3. Section 2.6.6. was updated to add the description for the acronym LCCID (Life Cycle Cost In Design). A note was added below Table 1.7.2 to refer to Section 2.6.6 for an explanation of the LCCID program.

Pre-final Review Comments and Responses

Comment	Response
4. Pg 1-7, top pg; The sentence at top of page, "addresses" should be "addressed".	4. "Addresses" was changed to "addressed".
5. Pg 1-7; Is this the recommended "implementation plan"? the words "In order to go further ..." are not descriptive enough.	5. Page 1-7 was re-written to help clarify our intent.
6. Pg 1-7, para B; What is meant by a "strategic up front survey" and why wasn't this included in this study? It is one of the recommended ECOs.	6. Refer to the response for comment 2, and the changes created by comment 5 of page 1-7. Also refer to the response for comment 19.
7. Pg 2-8; The examples indicate inside temp of 65°F while the table indicates 72°F. The inside temp of 72°F is more realistic. Recommend degrees on pg 2-8 be changed.	7. The temperature in the sample calculation on Page 2-8 was changed to 72°F. Also, the U-value was corrected in the calculation to 0.55. The values determined for the Heat Loss and Cost in the sample calculation are correct.
8. Pg 2-9, Table 2.5.3.1; Roof "U" value of 0.11 does not seem correct. We design to U=0.03 now and over the past 20 yrs. the roof "U" value constructed for _____ at least U=0.05	8. The U-value that we used was based on standard installation per ASHRAE Handbook 1977 Fundamentals. Nothing we saw from an installation standpoint or the drawings available to us suggested that the roof was of construction constituting U-values of 0.05 or better. In any event, changing the value would not have any significant effect on the ECO results.
9. Pg 2-10, para 2.5.4, 6th sent; Explain what is meant by this sentence - "Year round cooling and heating loads will be estimated based on building's usage".	9. This statement generalizes the approach of evaluating chunks of building space by the apparent utilization of the space(s), by the equipment supporting the area and by the relative location within the building. Refer to Section 5.4 beginning on Page 5-22 for more explanation on this approach.
10. Pg 2-14, winter and summer schedule; This does not agree with winter months at left bottom of Table 2.5.5.1.	10. The approach to the electric model for this project was to review the loads on a 3-season (4-month/season) basis for establishing demand and usage while the actual rates are bi-seasonal based. Summary calculations evaluate the cost associated with the totals for the summer (4-months) and non-summer periods (8-months). The reference to winter months in the lower left hand corner of the sample, Table 2.5.5.1 refers to the non-summer months.

Pre-final Review Comments and Responses

Comment	Response
11. Pg 2-16, Table 2.5.5.1; Demand charge are \$9.22 from June - Sept. How does this jive with info at left bottom of Table 2.5.5.1. Why is historical data absent?	11. The values at the lower left of Table 2.5.5.1 are different from the values determined later for Fort Monmouth because this table is a sample only. Also, no historical data is shown because it is a sample only.
12. Pg 2-21, para 2; deviation of \$21.23 per mmBtu requires a "\$" sign in numerator	12. Page 2-21 was corrected to add "\$" in numerator.
13. Pg 2-25, para 2.7; There has never been a meeting scheduled with DPW to discuss report findings. Perhaps when these comments are received an "on-board review" at DPW can be scheduled.	13. As previously agreed upon, we would be available for a meeting once the review comments were made and addressed.
14. Pg 3-5, Table 3.3.2; The roof resistance value / "U" value does not appear correct. Roof replacement was completed.	14. Refer to comment item #8.
15. Pg 2-23, Table 2.6.6.1; Can this table be made to appear clearer than it is? How does this table fit into what we are doing? Purpose?	15. No. This table is an exact copy of what was received with the program. The table is a guideline of how one would go through the LCCID program commands/functions. It was provided as a reference to the LCCID approach.
16. Pg 1-5, 1-6, ECO Summary Table 1.6.1; Why are there no Non-ECIP, O&M projects developed, ie FEMP projects?	16. We did not identify any projects that fit the non-ECIP, O&M projects definition as stated on Page 7-3.
17. Pg 3-17, 3-18, Table 3.4.1.1 & 3.4.1.2; What does "Est" mean in the column headings?	17. The term "Est" means that every piece of information listed in the table was not identified from a drawing schedule, maintenance list, equipment tags, etc. Information was added and values calculated (estimated) where necessary to complete the table. We filled in these remaining columns with values based on the information available and/or good engineering judgement. (i.e. estimated in some cases).
18. Table 3.4.1.1 & 3.4.1.2; The point size is too small - recommend/request table be reprinted with point size of Table 3.4.1.6.	18. C-size drawings of the two tables in question are attached for your use. The 11x17 tables in the report were left as is.

Pre-final Review Comments and Responses

Comment	Response
19. Pg 3-14, Bldg 2700 exhaust and 5-33/34; The deficiency that exists would suggest to me that a possible Non-ECIP O&M project could be developed to remedy this deficiency.	19. Yes, we recognize that the building as presently setup has significant deficiencies associated with a lack of outside air, and potentially excess exhaust. A project to add air where needed and to reduce air where not required by eliminating exhaust would go along way toward improving the air quality in the building. Such a project however, would not reduce overall energy costs. The costs would increase with the added outdoor air quantities. This study focused on energy savings opportunities and not building deficiencies. The project presented later as ECO-3 was a hypothetical situation based only on the reduction of unnecessary exhaust.
20. Pg 3-15, 4th line from top; Cross reference specific page #'s where the discussion of exhaust, ventilation rates, infiltration occur in Section 5.	20. Page 3-15 was revised to add reference details to "Section 5".
21. Pg 3-25, 6th line from top; Bldg 2705 is not 30,000 sf. Our records indicate 47,592 sf.	21. The square footage in this sentence was revised to match the exact total provided.
22. Pg 3-27, 4th line; Why did Entech "assume" two pumps installed? In the note that follows the "pumps had failed? this cannot be an assumption.	22. Page 3-27, Section 3.6 was rewritten to eliminate the assumption that "two domestic hot water pumps were installed".
23. Pg 3-27, para 3.7, 6th line; Which feature (or both) is not being used.	23. The sentence in question was clarified on page 3-27 addressing the use or non-use of time clocks.
24. Pg 3-31, para 3.10, 9th line; Natural gas usage in lab areas should be more certain not "possibly" either by site inspection or interview with lab technicians this could be made certain.	24. Since the available records suggested extremely low levels of gas usage, it was not considered important to identify all the minor users including labs. Only the expected gas usage associated with boilers was evaluated with the models and the ECOs.
25. Pg 4-1, para 4.1 4th line, Pg 4-10, para 4.4; Natural gas billings were available for Bldg 2700 - if these were not being furnished Entech should have announced in stronger terms these were not provided. I recall hearing no objection by Entech personnel other than billings were required. Natural gas billings can be provided.	25. We visited the Ft. Monmouth "energy" group on three different occasions to assist in the search for billing information associated with Building 2700. Several phone calls and faxes of request were made in an attempt to get more information. What is shown is what was either found and/or provided. Since the past use of gas was negligible relative to the projected future totals, the information provided was of little use anyway. New billing beyond (later than) the time period evaluated are not requested.

Pre-final Review Comments and Responses

Comment	Response
26. Pg 4-1, 4.1, 14th line; Specify where in Section 5 these "details" may be found.	26. The line in question was modified to include the Section 5.6.3.1 reference.
27. Pg 4-7, para 4.2.3, Entech should contact the utility and verify what the interval is.	27. The interval as specified in ACP&L Rate Schedule Sheet No. 22, Revision 3, is 15 minutes as stated on Page 4-7.
28. Pg 4-11, 1st & 2nd line, Pg 4-12 Table 4.4.1; The natural gas data presented is useless.	28. Data is based on actual gas bills for Building 2700 for the time period of this report. The boilers were still running on oil during this period also. Also refer to response for comment 25.
29. Pg 4-15, 3rd line; The text should state "how" this adjustment was made and perhaps include an example.	29. The text Section 4-5, starting on page 4-12, modified to further clarify how the steam production totals were established.
30. Pg 4-17, para 4.6, 2nd line; Spell "production".	30. We have added the missing "i".
31. Pg 4-17, para 4.6, 5th line; Is it accurate to assume the efficiency of oil fired 1940 equipment for the (equal to) efficiency of the 1994 dual fuel oil and natural gas burners? Is natural gas more efficient than fuel oil?	31. Refer to the changes in Section 4-5 pertaining to comment 29. The changes in that section also address the questions presented here in this comment.
32. Pg 5-2, para 5.2.1, 4th line from bottom & Pg 5-3; Indicate where are the text the EZDOE results can be found. The various percentages given require some foundation. How were they determined?	32. The results are summarized on a yearly basis in Section 5.4.4, starting on page 5-39. The percentages or diversity factors used in steam models represent average estimates for the amount of connected load needed during a given time of day and year. We used the EZDOE results as a check for setting these factors along with engineering judgement for trends, balance, etc.

Pre-final Review Comments and Responses

Comment	Response
<p>33. Pg5-7, 7th line from top, Table 5.2.2.1 - 5.2.2.3; What is the basis/foundation for the assumption of the percentage? Is this the percentage of the connected load? The text should state "connected load" if it is. Reheat values seem high.</p>	<p>33. Refer to the response for comment 32. Also we have added changes to Section 5-2 to clarify that the percentages relate to the connected loads as far as the reheat values go, the systems using reheat do so because of dehumidification concerns which inherently creates a constant discharge temperature scenario for these spaces. In the case of Building 2705 the reheat loads for the zones involved are highest at night during the winter because of the outdoor affect of heat loss, and the lack of internal gain in the space at night. This is typical for most systems with exception of cleanrooms which utilize high volumes of air and have internal heat gains on a more consistent basis. Therefore, the rise in space temperature is basically a constant year round and for the most part it is maintained by consistent levels of average reheat.</p> <p>The actual values may fluctuate some with seasonal affects but with the great amount of air involved its impact is minimal. The values used in the study are adequate for the level of analysis involved.</p>
<p>34. Pg 5-7, 5-8; The "reheat loads" for the cleanrooms as a constant year round value puzzles me and I don't understand the logic. The reheat values of Bldg 2705 in the summer seem equally illogical. Need your help understanding this.</p>	<p>34. See response to comment 33.</p>
<p>35. Pg 5-13, Table 5.2.6.1; The heading % - how were they determined? The same is typical for all categories. Text should explain how to the nearest 1/10% this was calculated (assumed).</p>	<p>35. The approach is portioning a 100% of the steam produced by rounding the estimated steam model values to the nearest 1/10 of 1%.</p>
<p>36. Pg 5-13, Table 5.2.6.1; 48.8% steam loss! Is our auditor going to "guffaw" at this value? Are we certain this is fairly reasonable & accurate? Seems unreasonable.</p>	<p>36. As stated previously, the steam losses projected here may include losses in the boiler. Page 5-13 was modified to add a note about the steam loss numbers. We believe that this system as operating is creating an excessive amount of condensation.</p>
<p>37. Pg 5-18, Fig 5.2.7.4; Figure shows steam losses at 49.6% is that figure a weighted average of 48.8, 49.8 & 53.5?</p>	<p>37. Figure 5.2.7.4 is a graph of the average values presented in Table 5.2.7.3.</p>
<p>38. Pg 5-20, Table 5.3.1; Roof "U" value is not 0.11. A factor of 0.05 is more reasonable.</p>	<p>38. Refer to the response to comment 8.</p>

Pre-final Review Comments and Responses

Comment	Response
39. Pg 5-20, Table 5.3.1; The infiltration rate as compared with Table 2.5.2.1 is different - 0.2 chg/hr vs 0.6 chg/hr. The ventilation ratio appears to be very low!	39. The 0.6 air changes per hour (chg/hr) value in Table 2.5.2.1 is for a sample calculation only. The 0.2 chg/hr value used later in Figure 5.3.3 represents an average value for the entire area being evaluated in Building 2700. Infiltration occurs where air can move in and out of rooms next to walls, roofs, etc. The large spans of area in the middle core of the building doesn't figure into the air infiltration. But since the heat loss calculation uses the entire building area, we had to make air adjustment to the "chg/hr" for predicting the average per square foot infiltration totals.
40. Pg 5-22, Fig 5.3.3; Since the bldg's seriously deficient in ventilation does this figure have any validity? Infiltration ratio of 0.2 AC/hr vs. 0.6 AC/hr as low as it is would it constitute 38.4% in heat loss? Does this make sense in light of pg 3-14 connected load exhaust = 180,000 cfm multiplier = 65,000 cfm?	40. The 0.2 chg/hr value as explained in comment 39 creates a significant overall infiltration which constitutes close to 22% heating totals, see Figure 5.3.3 on page 5-22. Both the ventilation (outdoor) air and the infiltration air are combined to be exhausted out the roof. Refer to the explanation in Section 5.4.3 beginning on page 5-34. ECO-3 was also modified to reference Section 5.4.3.
41. Pg 4-18, Table 4.6.1; Recommend that this table be compared with the actual NG bills (enclosed)	41. No gas bills were enclosed. Generated estimated gas consumption was based on the time period with documented fuel oil usage.
42. Delete Comment	42. No response required.
43. Pg 5-26, Fig 5.4.2.2; (a) MR#? = MR 11 & white (I-1to I-2) (b) Stairway#4 should be violet color coded (magenta?) (c) there is a unit heater which heats area behind breezeway entrance and adjacent to loading dock and stairway #5. (d) Substation #5 should be violet.	43. Corrected and added drawing notes where appropriate-(a), (b) and(d) (c) The blue area in the back represents MCA (III8 - III9) unit heaters. A steam heater exists in dock area from III 9 to III11.
44. Pg 5-27, Fig 5.4.2.3; (a) the main entrance has steam radiation heat inside col I9 to col I10 (b) the area between col I15 and II5 at the bldg exterior is MCA 2-pipe (light brown) (c) there is a MR for PM JCALS located at bldg center line before col lines IV14 & IV15. Color light tan. (d) MR#? between I17 &I18 = MR13	44. Corrected, modified and added drawing notes where appropriate for (b), (c) and (d). (a) From the design drawings and our walk thru it is our understanding that MCA air handlers and cabinet unit heaters serviced this area.

Pre-final Review Comments and Responses

Comment	Response
45. Comment Deleted	45. No response required.
46. Pg 5-28, Fig 5.4.2.4; (a) Center core area between col I6 & I9 is served by equipment in MR21 and is not MCA 2-pipe. (b) Center core between I2 & I4 has a thru wall A/C & Liebert A/C for telephone room.	46. (a) According to MCA drawing M-19, this area is supported by MCA system ductwork to/from Mechanical Room 21A above stairwell #1. (b) The loads in this area were generally modeled as steam w/misc DX cooling. The study at this stage will not be updated for this equipment.
47. Pg 5-27, Fig 5.4.2.3; (a) Extend light tan one bay south to III12 & III13 (b) MR#? between III9 & III10 is not a MR - delete from dwg.	47. Corrected (a) and (b).
48. Pg 5-26, Fig 5.4.2.2; (a) MR#12 should be white unheated space. (b) delete (c) Area between I17 & I14 should be green - cooling only. (d) MR#? between III9 to III10 does not exist delete notation. (e) Area between III10 to III13 should be light tan (not blue)	48. Corrected (a), (c), (d), and (e).
49. Pg 5-28, Fig 5.4.2.4; Between core I6 to I9 should be composite dark tan & green Not MCA 2-pipe!	49. See response to comment 46 (a).
50. Pg 5-29, Fig 5.4.2.5; Between Core I20 to III9 should be composite dark tan & green.	50. Corrected this item.
51. Pg 5-31, par 5.4.3, "City of ref"; "Long Beach" would be a more appropriate city of ref. than Newark.	51. Newark NJ is the closest site with available weather data for EZDOE.
52. Pg 5-34, 2nd line from bottom; Why is the connected O.A. quantity an "estimated" quantity?	52. Outside air quantities were established from schedule or estimation. Scope of work did not include detailed evaluation of all HVAC equipment including TAB reports.
53. Pg 5-36, 5-37, Tables 5.4.3.1 & 5.4.3.2; The AC/hr rate is given here as 0.8 for infiltration. See pg 5-20, Table 5.3.1 uses 0.2 AC/hr. In the degree day method, why are different values used?	53. Higher value of 0.8 AC/hr was used for specific perimeter zones in EZDOE. Degree Day Method used 0.2 as an average for the total floor area combined. See response to comments 39 and 40 also.
54. Delete comment	54. No response required.
55. Pg 5-42, Table 5.5.1.1; The title seems a little mislabeled what is "heating reheat..."	55. Title should be "Heating/Reheat..."

Pre-final Review Comments and Responses

Comment	Response
56. Pg 5-19, 6th line from top; What does "cost estimate" have to do with the heat loss model? Is this a typo?	56. The sentence in question on page 5-19 was modified to clarify the comment.
57. Pg 5-42, Table 5.5.1.2, 5th line from bottom; The 1,417 tons peak cooling is not found in Table 5.5.1.2. This value is supported by the operation of only 1 MCA chiller during the summer months.	57. The figure in this line was modified to read 1,330 which matches Table 5.5.1.2. Yes, the peak day of 640 tons of MCA water is less than the chiller capacity of one chiller, or 690 tons.
58. Pg 5-50, Table 5.6.3.2, 5.6.3.3; The comparison of the models is not in the report I have or the Tables 5.6.3.2 and 5.6.3.3	58. The only comparison was made in Table 5.6.3.1. Tables 5.6.3.2 and 5.6.3.3. were not needed, and the reference on page 5-51 was deleted.
59. Pg 6-2, 2nd line from top; An ECO to provide ventilation to balance the exhaust & infiltration requirements should have been developed FEMP?	59. Refer to the response for comment 16 and 19.
60. Pg 6-5, Bldg 2706, Boiler plant (MCA HW) 2nd sent; What is the basis for 15.2 mlbs/day? How does this jive with EZDOE of 3,460 mmBtu/yr (5,500 mmbtu/day)?	60. The introduction to ECO-1 was modified to reduce confusion by removing the 15.2 mlbs/day reference. Table 5.5.1.1 was modified to read 5,500 mmBtu per year and this value matches the MCA totals from Table 5.4.4.
61. Pg 6-9, proposed reheat (similarly Pg 6-15, & Pg 6-23); Boiler (HW not steam please) should be located in MR41 and MR42 not MR43.	61. Pages 6-9, 6-15, and 6-23 were modified to add reference to the alternate choice, ECO-1B, for hot water boilers instead of steam boilers for the cleanroom areas. We selected MR43 because of its larger size and that it was relatively empty of useful equipment. MR41 and 42 are smaller and presently include operating equipment.
62. Pg 6-21; (a) Please justify or provide basis in "factors" = labor = 55%, material = 10% (b) spell "contingency"	62. (a) These are the markup values we use for labor and material. Their basis is from the Means Estimating Books, and generally the average impact of the two values is to create 25% markup. (b) Spelling has been corrected.
63. Pg 6-22; What % applied to "overhead and profit" to be added to subtotal.	63. The overhead and profit factors are 10% on materials and 55% on labor. The spreadsheet automatically calculates these values and adds them to the bare cost.
64. Pg 6-29; Bldg has been replaced, not req'd, no cost. The overall cost is very high.	64. Building 2704 was part of the scope during the development of the study. The costs included a new building to support new boilers.

Pre-final Review Comments and Responses

Comment	Response
65. Pg 6-37, proposed, 2nd section; Aren't these really "preheat coils"?	65. Reheat coils are normally required for cleanroom temperature and humidity control requirements. Subcooling is required to remove moisture after which reheat is provided to maintain space temperature control.
66. Pg 6-40; More than 1 HW coil will be required.	66. The cost estimate states (3) coils at \$5,000 each, implying one coil for each unit. The reality is that this will probably take multiple coils for a given AHU "coil". We believe the cost estimate is appropriate for the installation.
67. Pg 6-60 & attach 8.13; This is only a tape, bubble gum and string approach. The building lacks ventilation in accordance with ASHARE 62-1989. Isn't the fix proper ventilation & removal of excessive exhaust? Then infiltration will be reduced and fresh air requirements meet. I think we have some other type of project here. Re: page 6 of attachment 8.13.	67. Refer to responses to comments 16 and 19. As stated, fixing the building air balance problems cannot be paid for by energy savings.
68. Pg 6-17; The current operation of the MCA HW heating system is one boiler operating in standby. Can this be maintained with this option?	68. If the changes associated with ECO-1 are made, then it is quite possible that you may have to go to a second boiler during peak periods. This type of operation would equate to a system setup of two boilers operating at 60% capacity during peak periods.